

List No. 260—1/10/34



*Price List*  
of  
**Building Material**  
**STEEL CASEMENTS**  
**Window and Roofing Glass**  
**MANHOLE COVERS**  
**CAST-IRON MAIN**  
**and DRAIN PIPES**  
**Roofing Felts, Dampcourses**  
**Washing Boilers**  
**VENTILATORS, GREASE TRAPS**  
Etc., Etc.



**Samuel Gratrix Jnr. & Brother**  
**ALPORT WORKS** Limited

**Quay Street, Deansgate, Manchester 3**

P.O. Box No. 417

Telephone BLACKfriars 6601

Telegrams "Lead Manchester"



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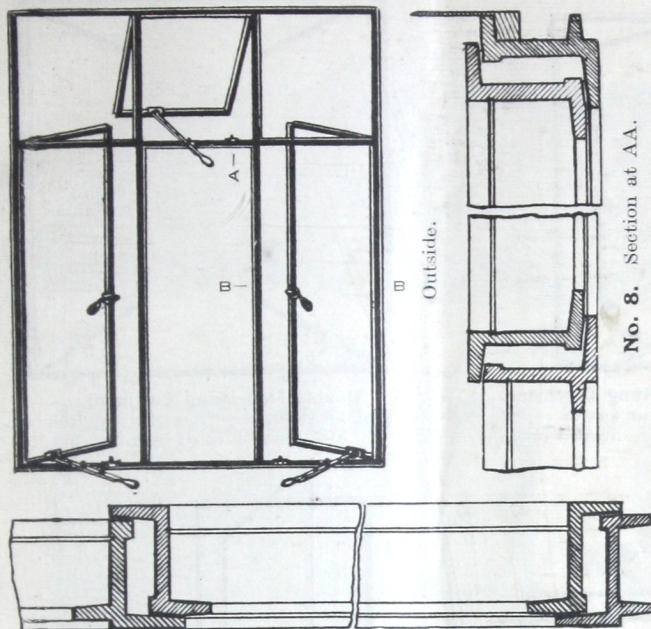




# Casements and Window Frames in Steel or Bronze

No. 8.

Sections at half full size.



Opening parts of the frames illustrated can be arranged in various positions, outward or inward opening.

All windows supplied with screwholes for fixing or with lugs for building in.

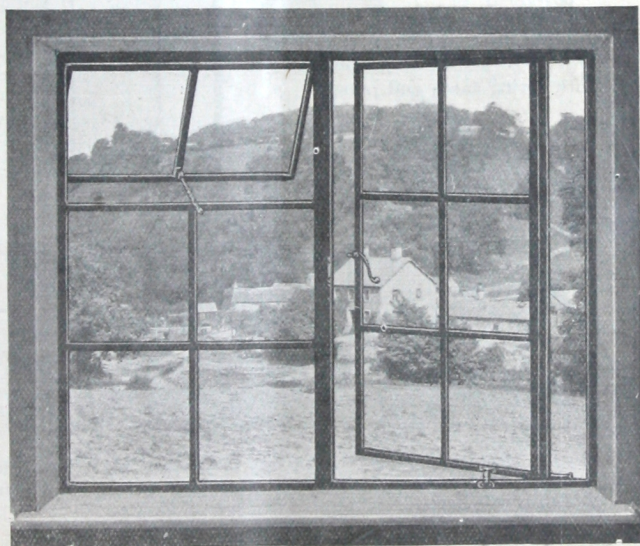
Open parts fitted with weather bars to ensure weather tightness.

No. 8. Section at BB.—Inside.  
Outward Opening Casements, top and side hung.

No. 15.

Casements and Sashes supplied in Standard Sizes or specially made to requirements

Fast Frames supplied in all sizes.



Illustrating Casement hung on projecting hinges (for easy cleaning).  
**IMPORTANT.**—The first size ordered is always taken as being the height.

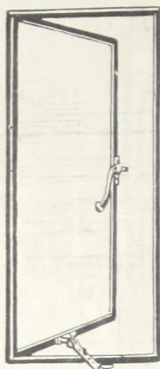




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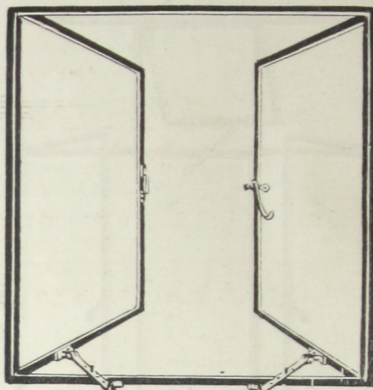
## Casements in Steel or Bronze

No. 1.



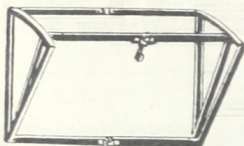
**Side Hung Casement.**  
Hung at left or right.  
Also made inward opening.

No. 2.

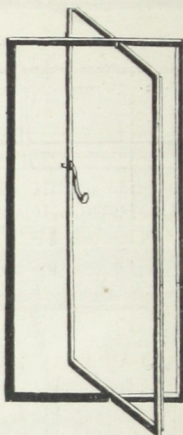


**Double Side Hung Casement.**  
With Shoot Bolts or with centre clapping bar.  
Also made inward opening.

No. 3.

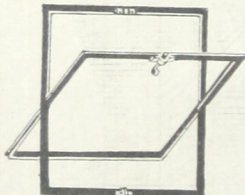


**Hopper Fall Back Casement.**  
With spring catch and pulley.



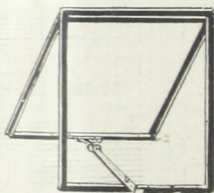
No. 4.  
**Vertical Pivot Casement.**  
Complete with stay bar.

No. 5.



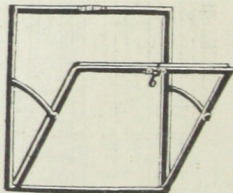
**Swing Casement.**  
With spring catch and pulley  
(or with stay bar).

No. 6.



**Push Out Casement.**  
With stay bar.

No. 7.



**Fall Back Casement.**  
With spring catch and pulley.

Made in Standard or Special Sizes.  
**IMPORTANT.**—The first size ordered is always taken as being the height.  
*Prices upon application.*

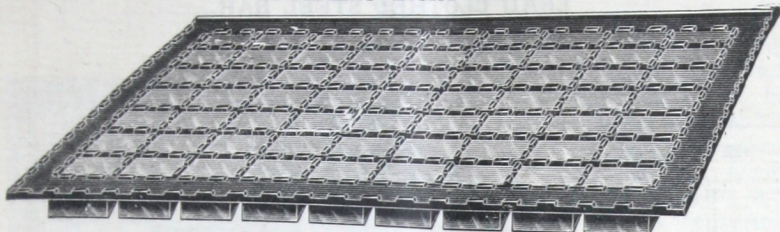




## Pavement, Floor and Stallboard Lights and Cellar Flaps

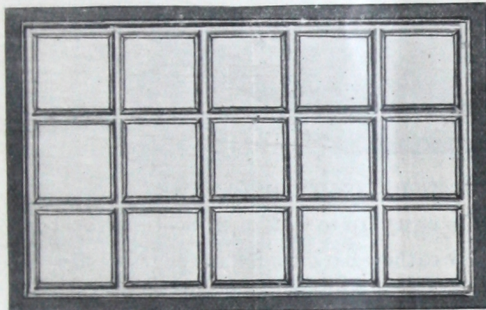
In Standard or Special Sizes.

PAVEMENT LIGHT No. 2.



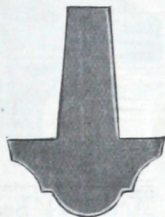
4" x 3" Semi Prism Lenses (as illustrated)  
Alternately in convex, buttoned, or  $\frac{1}{4}$ " rough plate lenses.

STALLBOARD LIGHT No. 5.



Also made with opening part.

Overall stock sizes—Lengths (to any width as below) from 2' 3" and every 6" up to 6' 3"  
Widths (to any length as above) from 9" and every 6" up to 4' 3"



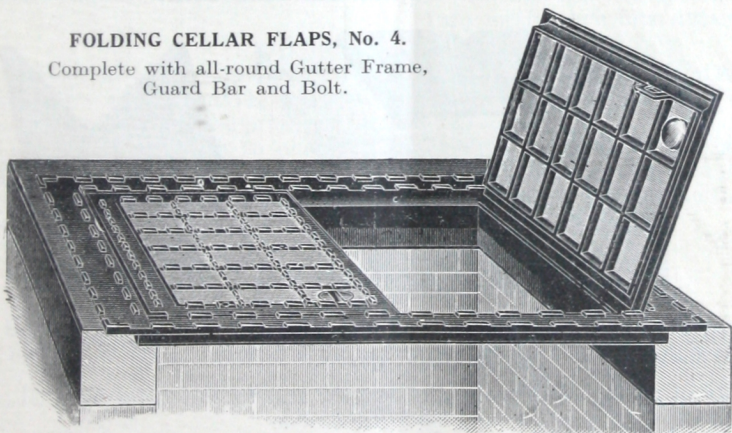
Section through  
Astragal.

1 $\frac{3}{4}$ " flanges.

Lenses 5 $\frac{1}{4}$ " x 5 $\frac{1}{4}$ ".

### FOLDING CELLAR FLAPS, No. 4.

Complete with all-round Gutter Frame,  
Guard Bar and Bolt.



Overall stock sizes—48 $\frac{1}{4}$ " long by either 25 $\frac{1}{4}$ ", 28 $\frac{3}{4}$ ", 32 $\frac{1}{4}$ " or 35 $\frac{3}{4}$ " wide.

Also 52 $\frac{1}{4}$ ", 57 $\frac{1}{4}$ ", 61 $\frac{3}{4}$ " or 66 $\frac{1}{2}$ " long, by either 25 $\frac{1}{4}$ " or 32 $\frac{1}{4}$ " wide.

Prices upon application.





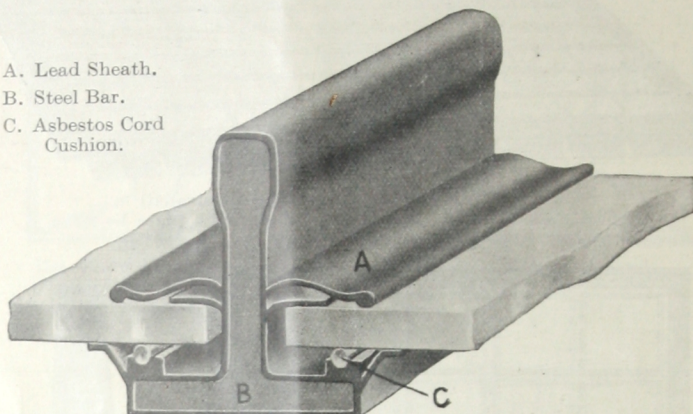
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## Patent Glazing Bars

### LEAD CLOTHED STEEL BAR.

(Hermetically sealed at each end).

- A. Lead Sheath.
- B. Steel Bar.
- C. Asbestos Cord Cushion.



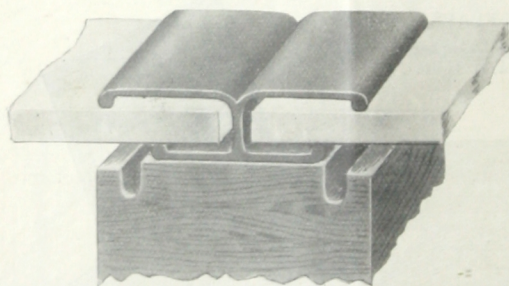
$1\frac{1}{2}$ " Section to carry up to 8 ft.

And in  $1\frac{1}{8}$ " Section to carry up to 6 ft, or 2" Section for 11 ft.

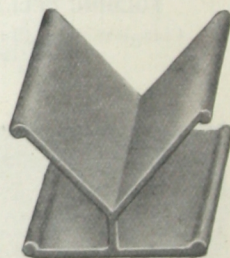
Supplied complete with weather bars to fix at eaves, asbestos cord, and all necessary fittings. The double wings ensure a watertight joint.

*Any make of bar supplied or fixed complete on job.*

### "ALPORT" LEAD GLAZING BAR.



Section of sash bar, with condensation grooves, showing Lead Bar fixed and glazed.



Before fixing.

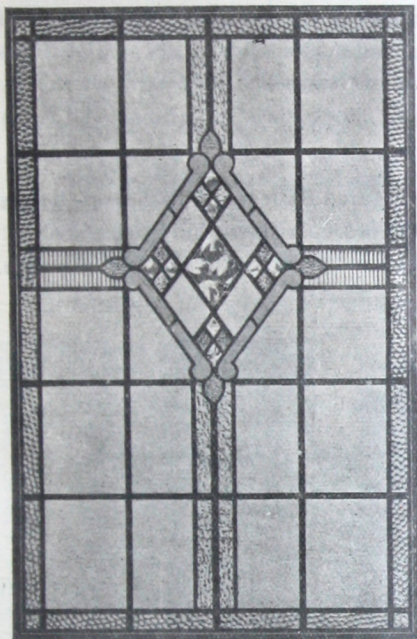
Made of strong sections to any length, and to suit glass from 21 oz. to  $\frac{1}{4}$ " thickness.

"Simplex" Lead Strip also supplied.





## Leaded Lights and Copper Lights



We are justly proud of the excellent reputation which we enjoy in this department of our business. This is undoubtedly due to our established policy of executing these orders with thoroughness and promptness, thus ensuring continued patronage.

The glasses used are lustrous and brilliant; the best obtainable. Exceptional care is taken to obtain delicate blending of colour. **All work is guaranteed weatherproof.**

Most beautiful effects are produced by the use of Opalescents, Antiques, Venetians, etc., and the comparative small extra cost involved is more than compensated by the results. Wherever it can be afforded we recommend the use of these richer glasses as the high-class workmanship fully merits their introduction.

A selection of original and artistic Leaded Light designs will be submitted on request giving particulars of requirements including approximate sizes and the price per foot desired. These designs are drawn to a scale of one inch to one foot, but they are adaptable to many sizes. Care, however, should be taken to select a design reasonably near to the sizes required, otherwise modification, which sometimes reduces the effectiveness of a design, may be necessary.

**Fire Resisting Copper Lights** in plain and various designs.

**Leaded Lights and Copper Lights in Rectangular Panes** or Quarries of Sheet, Cathedral Figured Rolled, Polished Plate or "Vita" Glass.

### IMPORTANT:

*The first size ordered is always taken as being the height.*



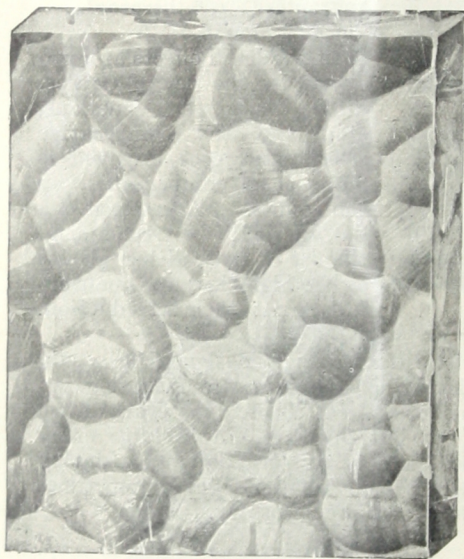


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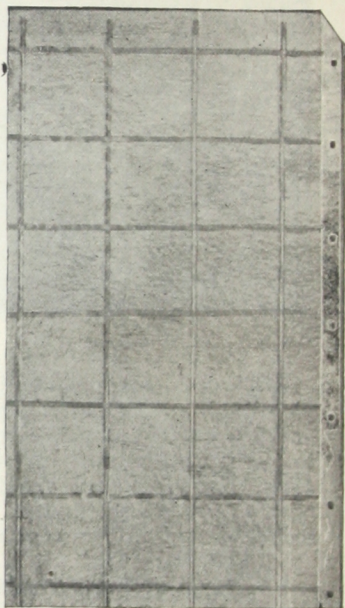
## Window and Roofing Glass

There is no better known or more widely used kind of glazing than that of **Sheet Glass**. Modern inventions have not only increased the scope of its dimensions but greatly improved its quality. The recognised qualities in general use for glazing are Fourths and Thirds. All qualities in the various thicknesses are extensively stocked by us and we supply promptly orders for cut squares or stock sizes in ordinary or extra large sizes.

**Wired, Rough and Rolled Plate, Figured Rolled, and Cathedral Glasses** form an important section of our Glass Department and as considerable stocks are held at our warehouse we can execute orders in the minimum of time.



Large Arctic.



Georgian Wired Cast.  
 $\frac{1}{4}$ " thickness,  $\frac{1}{2}$ " mesh.

**"Vita" Glass** in Sheet, Cathedral and Polished Plate.

Samples and prices of any of the above glasses may be had on application.





## Polished Plate Glass

A considerable experience of Polished Plate Glass, covering almost a century has placed us in an eminent position for dealing with any requirement where Polished Plate Glass is concerned.

Gratrix's Plate Glass has been subjected to minute scrutiny by expert inspectors and can be depended upon to be fully up to the standard required for its various purposes.

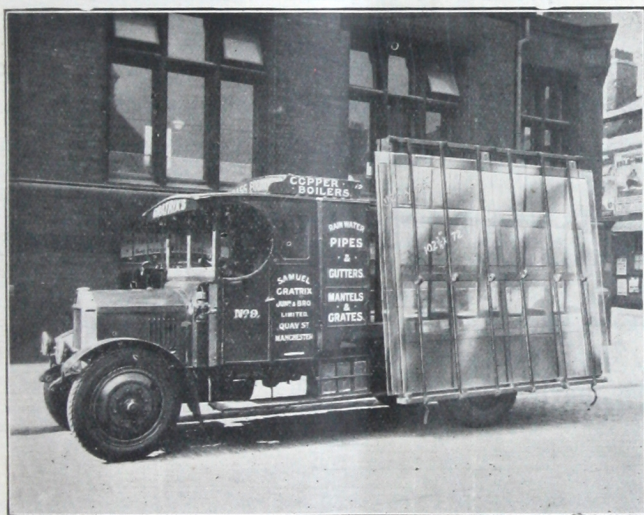
Gratrix's Plate Glass is lustrous and beautifully finished. Its use in windows, doors, etc., virtually transforms the appearance of the whole building.

Gratrix's Plate Glass used in the home as a protection for furniture adds elegance and dignity to the room.

Gratrix's Plate Glass gives perfect light transmission, totally undistorted vision and true reflection.

The standard thickness of polished plate glass is  $\frac{1}{4}$ ", but we stock all strengths from  $\frac{1}{8}$ " upwards, enabling us to carefully select thickness where required.

Besides window glazing, Polished Plate Glass serves many useful purposes for which we bevel and silver, polish edges, drill, bend, emboss, brilliant cut, etc. At very competitive rates we have a most efficient service for this work, orders being executed in a minimum of time and all work is supplied with a guarantee of satisfaction.



We realise the importance of quick delivery and easy unloading facilities for shop window plates where delay may mean so much in labour costs and valuable assistance is afforded customers by delivery with our **Specially built Plate Glass motor wagons.**

**Extensive stocks of Polished Plate Glass** from the smallest to the extra large sizes are held by us; deliveries can thus be given at short notice and arranged to suit customer's convenience.





Samuel Gratrix Junr. & Brother Ltd., Quay Street, Manchester

## White, Black, and Coloured Opal Glass

This glass is non-absorbent, sanitary, easy to clean and does not craze. It can have the edges finished and be drilled or bent in the same way as ordinary glass. For these reasons it commends itself for many purposes.

By using as wall panels, bath panels, surrounds, splash-backs, tiles, skirtings, dadoes and shelves in Bathrooms, etc., delightful effects are obtained in contrasting colours or in the matching of coloured sanitary ware.

Suitable in shopfitting for table and counter tops, shelves, window slabs, tiles, wall panels, ceilings, dadoes, fascias, pilasters, columns, lettered signs, etc.

We supply cut to special sizes, small or large, from  $\frac{1}{4}$ " to  $\frac{3}{4}$ " in thickness.

Available in a variety of colours in varying shades of green, blue, primrose, pink, salmon, etc., in self colours, or with marbled effect.

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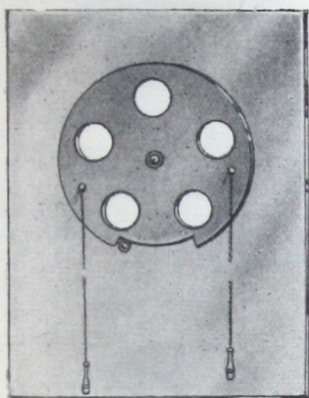
*Samples and prices may be had  
on application.*





## Glass Ventilators

### No. 162. GLASS "HIT AND MISS" VENTILATOR.



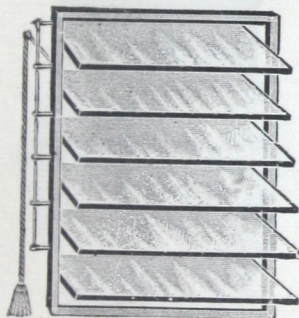
Made in Polished Plate, Sheet, Figured Rolled and other glasses, to required sizes.

Supplied complete with **best bone fittings.**

The disc is usually fixed towards the top of the pane unless otherwise requested.

Also made with pear-shaped holes at extra cost.

### No. 3756. GLASS LOUVRE VENTILATOR.



These ventilators are durable, neat in appearance, and easy to fix.

**1st Quality:** Polished Plate louvres with polished edges; all fittings in brass.

**2nd Quality:** Sheet or Figured Rolled, etc., louvres with plain edges; zinc and brass fittings.

Prepared for glazing over or under when required, also made to Special Shapes.

The framework is zinc, but can be supplied in brass or in copper.

**When Ordering.**—State quality required, giving both full glazing and sight sizes. Say if for fixing to **inside or outside rebates**, and whether the cords are required at right or left hand.

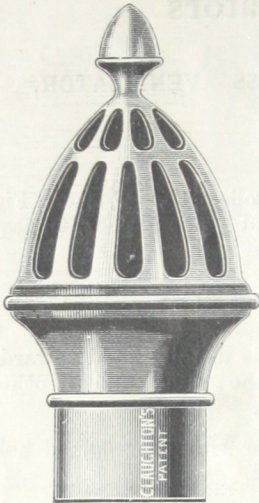
**IMPORTANT.**—The first size ordered is always taken as being the height.





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## Soil Pipe Ventilators

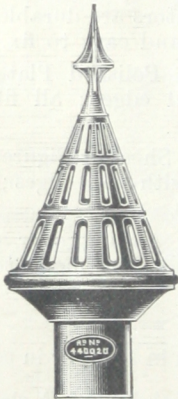


(Registered Design)

No. 6523.

Cast Lead Soil Pipe Ventilator.

Sizes 2" 2½" 3" 3½" 4" 4½"  
40/2 51/8 68/10 68/10 68/10 103/3  
per dozen.

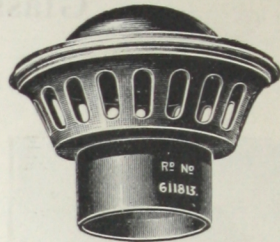


(Patent)

No. 7243.

The "TRIUMPH" Cast Lead Soil Pipe Ventilator.

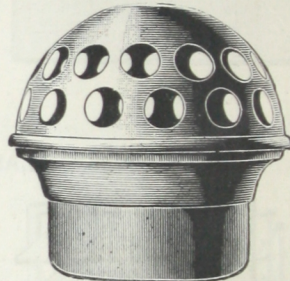
Size 4" .. 57/5 dozen.



No. 7327.

Cast Lead Soil Pipe Ventilator.

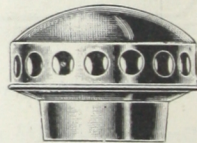
Shank.	Dia. top	Height.	
3¼" ..	6¾" ..	5½"	30/7 doz.
3¼" ..	6¼" ..	5"	30/7 "
1¾" ..	4¾" ..	4"	17/3 "



No. 6519.

Copper Soil Pipe Ventilator.

Sizes	3"	3½"	4"
	2/0	2/1	2/2 each.



No. 7444.

Copper Soil Pipe Ventilator.

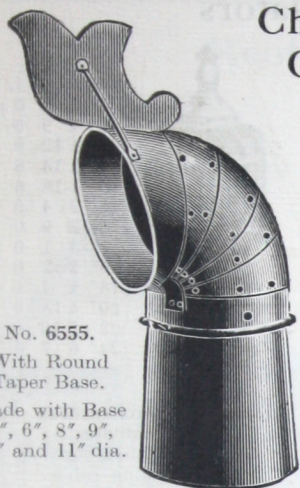
Size 4" .. 2/2 each.

Subject to Alteration with or without Notice.

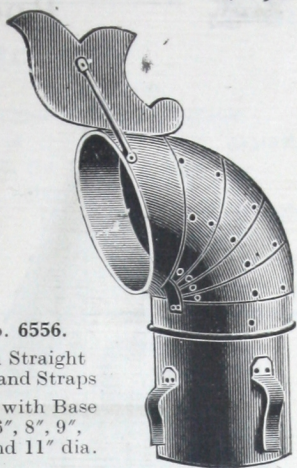




## Chimney Cowls



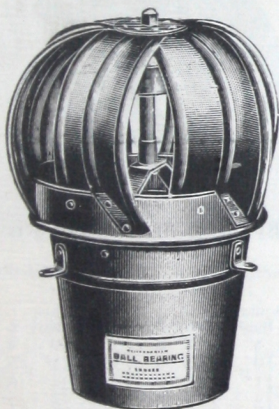
No. 6555.  
With Round  
Taper Base.  
Made with Base  
4", 6", 8", 9",  
10" and 11" dia.



No. 6556.  
With Straight  
Sides and Straps  
Made with Base  
4", 6", 8", 9",  
10" and 11" dia.

No. 6555	Lobster Backs Cowls	4"	6"	8"	9"	10"	11" dia.
	Galvanized	10/0	11/3	14/0	15/0	16/0	18/0 each
No. 6556	Do.	Do.					

"HELMET" CHIMNEY COWL, with  
latest improvements. Extra Strong.  
Galvanized completely after  
manufacture.



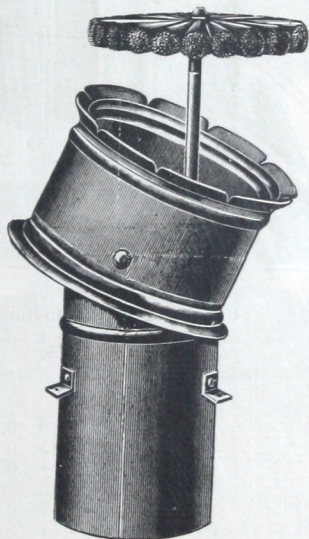
No. 7246.

To fit inside Chimney Pots 7" to 10"  
10/3 each.

### FRYER'S IMPROVED COWL

For smoky chimneys; made in  
Galvanized Iron.

NOTE.—The sweep's brush can pass  
right through.



No. 7538.

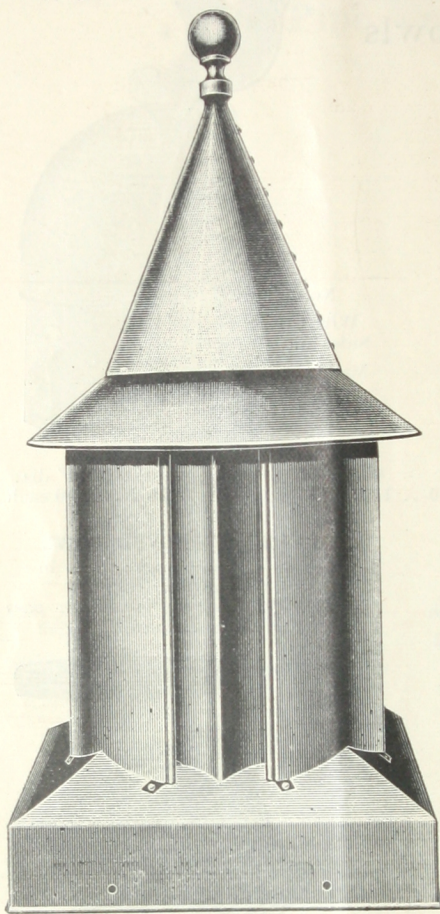
Chimney Cowl in 7", 8", 9", 10" sizes  
15/0 each.

Subject to Alteration with or without Notice.





## Roof Ventilators



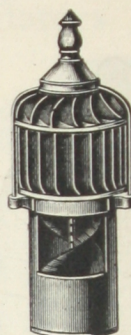
No. 6780N.

### Exhaust Roof Ventilator

made of Galvanized Steel, painted.

Made in the following sizes :

Tube	Square Base.	£	s.	d.	
6" ..	12" x 12"	1	10	0	each
7" ..	14" x 14"	1	13	0	"
8" ..	16" x 16"	2	1	0	"
9" ..	18" x 18"	2	10	0	"
10" ..	20" x 20"	3	0	0	"
12" ..	24" x 24"	3	17	6	"
15" ..	30" x 30"	6	0	0	"
18" ..	36" x 36"	10	0	0	"

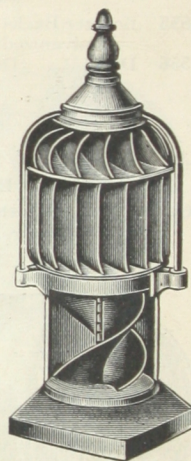


No. 3716.

### Revolving Archimedeian Screw Ventilator,

with plain round bottom so as to fit on tubes.

Dia.	£	s.	d.	
4"	1	4	0	each
6"	1	9	0	"
8"	1	12	0	"
9"	1	14	6	"
10"	1	18	6	"
11"	2	4	0	"
12"	2	9	0	"
14"	3	1	0	"
16"	3	12	0	"
18"	4	7	0	"
20"	4	18	0	"
22"	5	10	0	"
24"	6	7	0	"



No. 3717.

### Revolving Archimedeian Screw Ventilator

with square bottom, so as to fit outside square wooden base.

Square					Square				
Dia.	Base	£	s.	d.	Dia.	Base	£	s.	d.
6"	8"	1	12	6	18"	20"	4	18	0
8"	10"	1	15	0	20"	22"	5	10	0
9"	11"	1	18	0	22"	24"	6	2	6
10"	12"	2	2	0	24"	28"	7	5	0
11"	13"	2	8	0	26"	30"	8	8	0
12"	14"	2	15	0	28"	32"	9	10	0
14"	16"	3	7	0	30"	34"	10	15	0
16"	18"	4	4	0					

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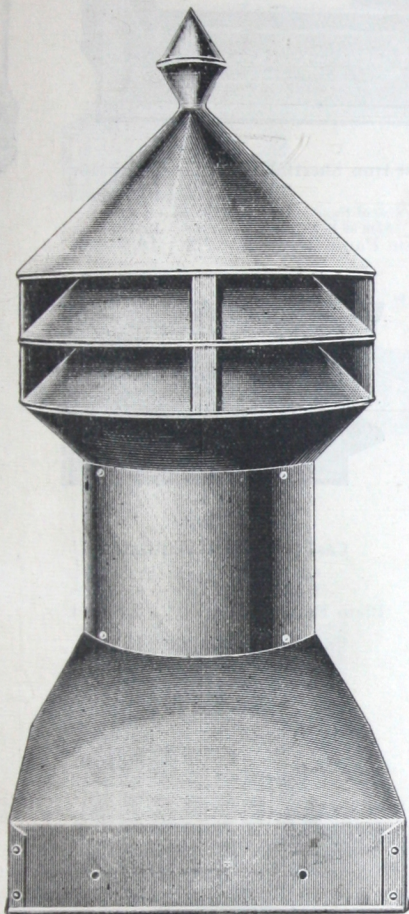
## Roof Ventilators

No. 7710.

### Exhaust Roof Ventilator

made of Galvanized Steel, painted,  
Made in the following sizes:—

Tube	Square Base.	£	s.	d.
9" ..	12" × 12" ..	2	7	0 each
12" ..	15" × 15" ..	2	17	6 "
15" ..	18" × 18" ..	3	10	0 "
18" ..	21" × 21" ..	4	7	6 "
20" ..	24" × 24" ..	5	5	0 "



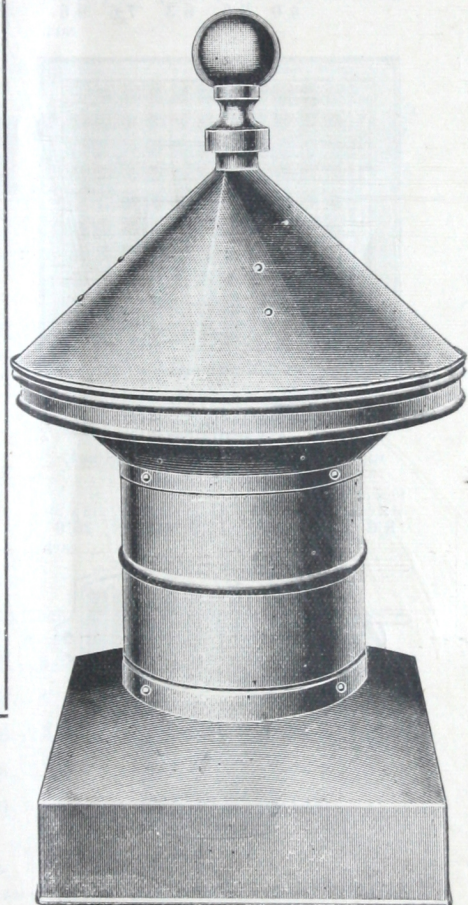
No. 7710.

No. 7711.

### Exhaust Roof Ventilator

made of Galvanized Steel, painted.  
Made in the following sizes:—

Tube	Square Base.	£	s.	d.
9" ..	12" × 12" ..	2	3	9 each
12" ..	15" × 15" ..	2	12	6 "
15" ..	18" × 18" ..	3	6	6 "
18" ..	21" × 21" ..	4	4	0 "
20" ..	24" × 24" ..	5	1	6 "



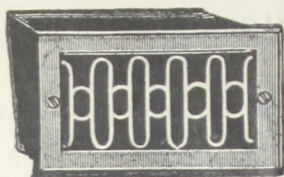
No. 7711.

Subject to Alteration with or without Notice.





## Wall Ventilators

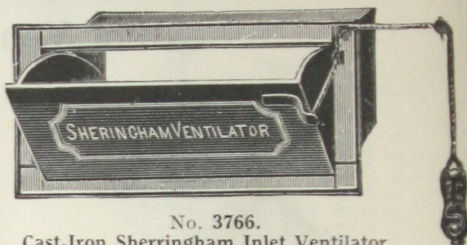


No. 3751.

Cast-Iron Outlet Ventilator,  
with Mica Flaps. Plain Iron—

Size of Front	11 x 5	11 x 7	11 x 9	11 x 11	16 x 11
Size of Box	9 x 3	9 x 5 1/4	9 x 7 1/4	9 x 9 1/4	13 1/2 x 9 1/2
	4/0	5/6	6/3	7/6	9/6

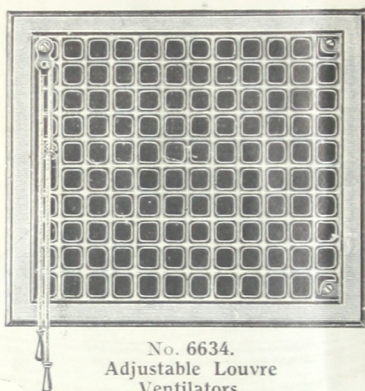
each



No. 3766.

Cast-Iron Sherringham Inlet Ventilator  
Painted.

Size of Front	11 1/2 x 5 1/2	11 1/2 x 8 1/2	16 1/2 x 8 1/2
Size of Box	9 x 3	9 x 6	13 1/2 x 6
Plain Painted	5/9	7/3	10/9 each



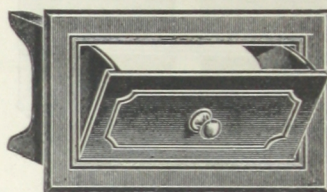
No. 6634.

Adjustable Louvre  
Ventilators,

made entirely of Wrought-Steel,  
Japanned Black.

Size of Box—	6 x 6	9 x 6	10 x 8	12 x 10	14 x 12	16 x 10
	8/0	8/6	9/0	12/9	23/6	26/0

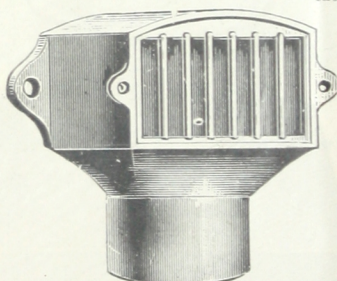
each



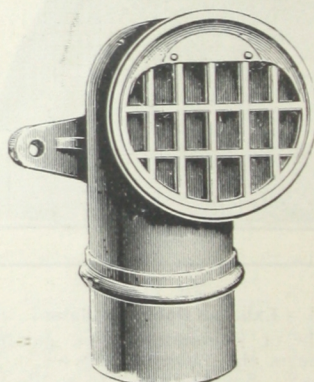
No. 7540.

Cast-Iron Inlet Ventilator.

Size of Front	11 x 8	11 x 11
Size of Box	9 x 6	9 x 9
Plain Painted	7/0	8/6 each



No. 6530.



No. 6529.

		Sizes	3"	4"	6"	
No. 6529	Galvanized Inlet valves, cast brass					
	front and mica flap	.. ..	8/0	8/6	20/0	each
No. 6530	Do. Do. Do.	.. ..	5/3	4/9	17/6	..
No. 6530A	Do. stamped brass front	.. ..		3/9		..

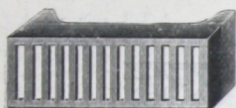
Subject to Alteration with or without Notice.





## Cast Iron Air Bricks

No. 2.



No. 22.



No. 8 Sliding.



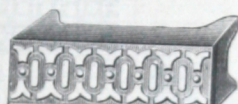
9" x 3"

No. 8 Non-Sliding.



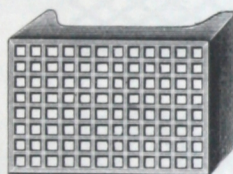
9" x 3"

No. 25.

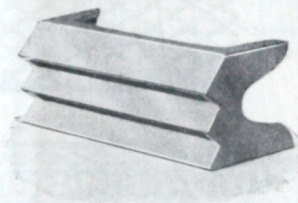


9" x 3"

No. 21



No. 27C.



	Non-										Galv.	
	Heavy	Light	Heavy	Sliding	Sliding	Light	Heavy					
Size	No. 2	No. 22	No. 22	No. 8	No. 8	No. 25	No. 25	No. 21	No. 27C	27C		
9" x 3"	8/3..	6/9..	8/3..	8/3..	15/0..	5/0..	6/9..	7/6..	6/0..	9/3	per doz	
9" x 6"	14/0..	11/9..	14/3..	15/0..	21/6..	9/3..	11/9..	13/3..	9/9..	14/3	"	
9" x 9"	20/0..	15/0..	20/0..	23/3..	36/6..	13/3..	16/6..	23/3..	15/3..	23/6	"	
12" x 6"	18/3..	—	18/3..	21/6..	36/6..	11/9..	—	22/6..	15/9..	24/3	"	
12" x 9"	26/6..	—	26/6..	29/9..	49/6..	6..	—	—	30/0..	20/6..	32/6	"

Plain Painted.

Other Sizes and Patterns. Prices on Application.

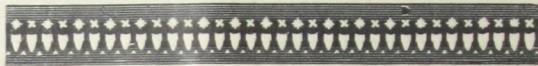
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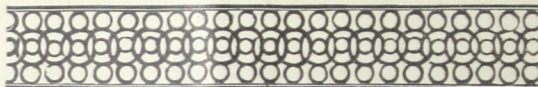
## Ornamental Gratings



No. 805. 4" wide  $\times$   $\frac{5}{16}$ " thick . . . . . 3/3 per yard



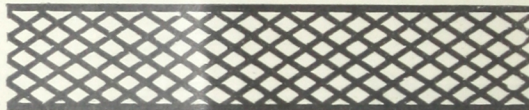
No. 807. 5" wide  $\times$   $\frac{1}{4}$ " thick . . . . . 4/3 per yard



No. 809.  $5\frac{1}{2}$ " wide  $\times$   $\frac{3}{8}$ " thick . . . . . 5/9 per yard



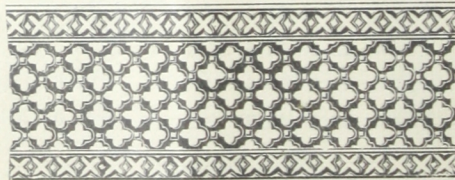
No. 803.  $3\frac{1}{2}$ " wide  $\times$   $\frac{1}{2}$ " thick . . . . . 3/9 per yard



No. 1. 7" wide  $\times$   $\frac{3}{8}$ " thick . . . . . 4/6 per yard



No. 4. 9" wide  $\times$   $\frac{3}{8}$ " thick, 7/6 per yard. 12" wide  $\times$   $\frac{7}{16}$ " thick 9/0 per yard.  
15" wide  $\times$   $\frac{3}{8}$ " thick 14/6 per yard.



No. 6. 12" wide  $\times$   $\frac{7}{16}$ " thick 10/3 per yard. 12" wide  $\times$   $\frac{1}{4}$ " thick 10/6 per yard.  
 $12\frac{1}{2}$ " wide  $\times$   $\frac{1}{2}$ " thick 11/0 per yard.

A NUMBER OF OTHER DESIGNS CAN BE SUPPLIED.

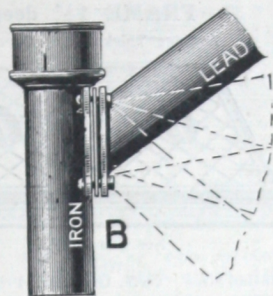
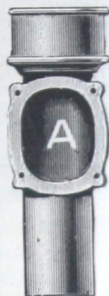
Subject to Alteration with or without Notice.



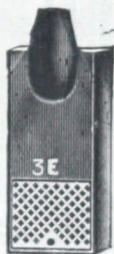
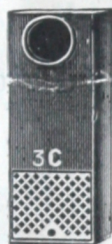
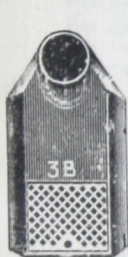


## Taylor's Patent Junctions

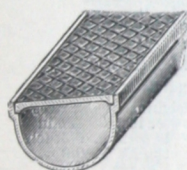
	3 1/4"	4"
No. 1	Each	Each
Rainwater	—	11/8
No. 21,		
3/16" metal	11/0	11/8
No. 10		
1/4" metal	—	12/6



CAST IRON AIR INLETS, 11/3 each.



PAVEMENT GUTTERS, Top and Body cast in one.



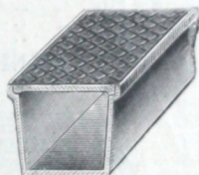
No. 2G.

	Per ft.	Per ft.	Each.
No. 1G.	6 fts.	Sh't l'gths	Stop ends
5 x 3	3/0	5/3	4/9
5 x 4	3/9	6/0	5/3
No. 2G.			
5 x 3 1/2	3/0	4/3	4/3

NOTE.—Prices are per foot.

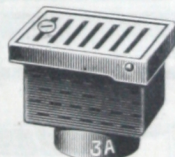
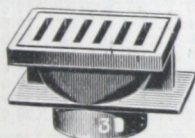
Short lengths (part of a foot charged as 1 foot).

No. 1G and 2G made also with open grating cover (Diamond Mesh) at same prices.



No. 1G.

CAST IRON PASSAGE GRIDS, 11/3 each.



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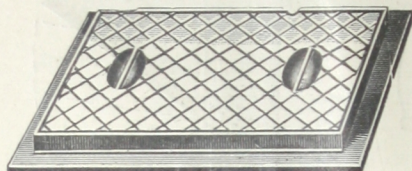
Samuel Gratrix Junr. & Brother Ltd., Quay Street, Manchester

## Manhole Covers and Frames

### No. 200 MANHOLE COVER and

FRAME  $1\frac{1}{4}$ " deep

Average Thickness of Cover,  $\frac{1}{2}$ "



Nos. 200 and 20.

Inside Sizes	Weights Cwts. Qrs. Lbs.	Prices Plain
8 $\frac{1}{2}$ x 8 $\frac{1}{2}$	.. 0 0 14	2/9 each
9 x 9	.. 0 0 18 $\frac{1}{2}$	3/6 "
10 x 10	.. 0 0 24	5/3 "
12 x 12	.. 0 0 26	5/0 "
15 x 15	.. 0 1 0	5/3 "
24 x 9	.. 0 1 8	8/3 "
24 x 12	.. 0 1 14	9/9 "
18 x 18	.. 0 1 14	7/6 "
24 x 18	.. 0 2 0	9/9 "
30 x 18	.. 0 2 20	17/6 "

### No. 20 MANHOLE COVER and FRAME

Average Thickness of Cover  $\frac{1}{2}$ "

Inside Sizes	Weights cwts. qrs. lbs.	Prices Plain
6 x 6	.. 0 0 11	2/3 each
7 x 7	.. 0 0 14	3/3 "
9 x 9	.. 0 0 19	3/0 "
12 x 12	.. 0 1 6	6/0 "
15 x 15	.. 0 1 9	6/6 "
18 x 12	.. 0 1 11	8/6 "
20 x 15	.. 0 1 16	9/9 "
24 x 12	.. 0 1 16	10/0 "
18 x 18	.. 0 1 21	8/3 "
20 x 20	.. 0 2 2	11/9 "
24 x 15	.. 0 2 0	11/9 "
24 x 18	.. 0 2 8	10/6 "
24 x 24	.. 0 3 0	16/6 "
30 x 18	.. 0 3 0	18/6 "

### HEAVY No. 2a MANHOLE COVER and FRAME $\times 2$ " deep

Cover  $\frac{1}{2}$ " thick.

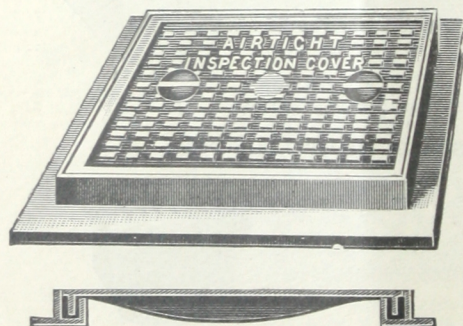
Inside Sizes	Weights cwts. qrs. lbs.	Prices Plain
12 x 12	.. 0 2 18	13/6 each
15 x 15	.. 0 3 11	17/3 "
18 x 12	.. 0 3 11	16/3 "
18 x 18	.. 1 0 18	21/6 "
24 x 12	.. 1 0 6	20/0 "
20 x 15	.. 1 0 6	20/3 "
24 x 15	.. 1 1 0	23/6 "

Inside Sizes	Weights cwts. qrs. lbs.	Prices Plain
24 x 18	.. 1 1 14	24/3 each
24 x 24	.. 1 2 18	33/6 "
30 x 18	.. 1 2 18	33/6 "
30 x 24	.. 2 0 0	39/0 "
30 x 30	.. 2 2 0	48/6 "
36 x 24	.. 2 1 0	45/9 "
36 x 30	.. 2 3 0	56/9 "

	ins.	Weights cwts. qrs. lbs.	Prices Plain
No. 200L	.. 24 x 18	.. 0 1 21	9/9 each
No. 20H	.. 24 x 18	.. 0 2 14	11/3 "
No. 21L	.. 18 x 18	.. 0 2 2	10/0 "
No. 21L	.. 24 x 18	.. 0 2 19	12/9 "
No. 21L	.. 24 x 24	.. 0 3 14	18/0 "
No. 22L	.. 24 x 18	.. 0 3 21	17/6 "
No. 22AL	.. 24 x 18	.. 1 0 24	22/9 "

### No. 21 MANHOLE COVER AND FRAME $\times 1\frac{1}{2}$ " deep

Average Thickness of Cover  $\frac{3}{8}$ "



Inside Sizes	Weights Cwts. qrs. lbs.	Prices Plain
9 x 9	.. 0 1 2	6/6 each
12 x 12	.. 0 1 14	9/0 "
15 x 15	.. 0 1 21	8/3 "
18 x 12	.. 0 1 21	10/9 "
18 x 18	.. 0 2 10	11/0 "
20 x 15	.. 0 2 10	13/6 "
24 x 12	.. 0 2 10	12/1 "
20 x 18	.. 0 3 7	17/6 "
24 x 14	.. 0 2 21	14/9 "
24 x 15	.. 0 2 14	14/0 "
24 x 18	.. 0 3 0	13/6 "
20 x 20	.. 0 3 2	17/3 "
24 x 24	.. 1 0 0	19/6 "
28 x 16	.. 1 0 4	20/0 "
30 x 18	.. 1 0 0	22/3 "
30 x 24	.. 1 1 0	28/6 "
27 x 27	.. 1 1 14	30/0 "
30 x 30	.. 1 2 14	36/9 "
36 x 24	.. 1 2 21	38/0 "

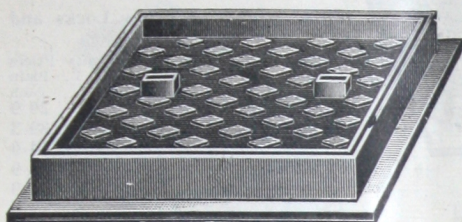
Weights given for Manhole Covers and Frames are approximate.

Subject to Alteration with or without Notice.





## No. 22 D Manhole Cover and Frame



Extra Deep Ditto for Concrete.

Average Depth Overall,  $4\frac{1}{2}$ "

Inside Sizes	Weights cwt. qrs. lbs.		Prices Plain
15×15×3 deep Cover	.. 1	0 10	..26/3 each
18×18×3 "	.. 1	1 12	..31/3 "
24×18×3 "	.. 1	3 0	..39/3 "
24×24×3 "	.. 2	0 10	..47/9 "
30×24×3 "	.. 2	1 21	..55/9 "
6 $\frac{1}{2}$ " deep overall.			
24×18×4 deep Cover	.. 2	0 23	..52/9 "

With Cover, 1" Deep for Concrete.

Average Depth overall, 3"

Inside Sizes	Weights cwt. qrs. lbs.		Prices Plain
10×10	.. 0	1 24	..10/9 each
12×12	.. 0	2 0	..12/0 "
15×15	.. 0	3 24	..20/9 "
18×18	.. 1	0 7	..23/0 "
24×18	.. 1	1 7	..27/9 "
24×24	.. 1	2 14	..35/3 "
30×24	.. 1	3 2	..38/6 "
30×30	.. 2	1 2	..48/0 "

NOTE—12×12 is 1 $\frac{1}{2}$ " deep.

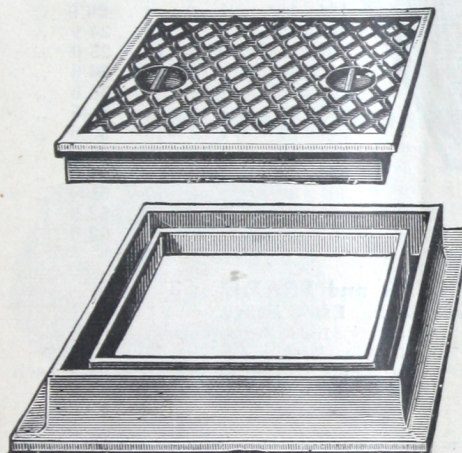
With Cover, 2 $\frac{1}{2}$ " deep, for Concrete

Average Depth overall, 4 $\frac{1}{2}$ "

Inside Sizes	Weights cwt. qrs. lbs.		Prices Plain
18×18	.. 1	1 13	..31/9 each
24×18	.. 1	3 0	..40/3 "
24×24	.. 2	0 0	..47/9 "
27×27	.. 2	1 7	..57/0 "
30×24	.. 2	1 10	..57/0 "

## No. 46 B MANHOLE COVER and FRAME × 2" deep

Average Thickness of Cover  $\frac{7}{16}$ "



Inside Sizes	Weights cwt. qrs. lbs.		Prices Plain
7×7	.. 0	0 21	.. 4/9 each
8×8	.. 0	1 4	.. 6/6 "
9×9	.. 0	1 7	.. 7/0 "
10×10	.. 0	1 9	.. 7/3 "
12×12	.. 0	2 0	..10/9 "
15×15	.. 0	2 11	..12/9 "
18×12	.. 0	2 11	..12/9 "
18×14	.. 0	2 18	..14/0 "
18×18	.. 0	3 7	..14/0 "
24×12	.. 0	3 7	..15/6 "
20×15	.. 0	3 7	..16/6 "
24×14	.. 0	3 9	..16/9 "
24×15	.. 0	3 14	..17/3 "
20×20	.. 1	0 0	..20/0 "
24×18	.. 1	0 0	..17/9 "
30×12	.. 0	3 21	..19/0 "
24×24	.. 1	1 7	..28/6 "
30×18	.. 1	1 7	..26/0 "
30×24	.. 1	2 14	..33/3 "
30×30	.. 2	0 10	..43/0 "
33×24	.. 1	3 0	..38/9 "
36×18	.. 1	3 0	..35/0 "
36×24	.. 2	0 10	..43/3 "
36×30	.. 2	1 14	..51/6 "
36×36	.. 2	2 10	..58/6 "
42×30	.. 2	3 16	..62/0 "
42×36	.. 3	2 0	..71/3 "
48×24	.. 2	1 21	..57/0 "
48×36	.. 3	3 12	..90/0 "

Above can be supplied with Keyholes.

Keys, 5/3 per dozen.

No. 1 and 2 Manhole Covers, with Two  $\frac{7}{16}$ " Gun-Metal Bolts .. 5/3 each set extra.

" " " Four " " .. 10/6 "

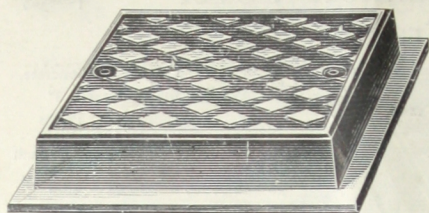
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## Manhole Covers and Frames

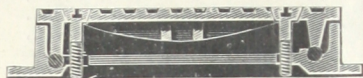


### No. 25 MANHOLE COVER and FRAME

Fitted with Two Screw Locks and Rubber Joint.

Outside Sizes	Inside Sizes	Weights C. Q. L.	Prices Plain each
16 × 14	13½ × 11½	.0 2 0	29 9
24 × 18	21½ × 15½	.1 0 0	39 3
30 × 24	27½ × 21½	.1 1 20	54 0
34 × 22	30 × 18	.2 2 7	72 9
34½ × 26½	30 × 24	.1 2 14	57 9
39 × 27	36 × 24	.2 1 0	73 6
33½ × 33½	30 × 30	.2 1 7	74 9

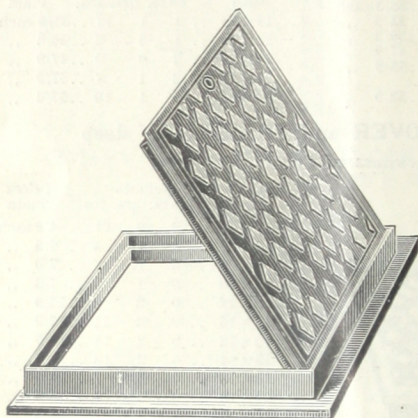
No. 25 fitted with Gun Metal Locks  
4 9 each extra.



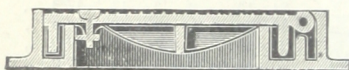
### No. 47B MANHOLE COVER and FRAME × 2" deep With Hinge and Lock.

#### No. 47B Light Pattern with Hinge and Lock

Inside Sizes	Weights C. Q. L.	Prices Plain each
18" × 18"	0 3 0	23 6
24" × 18"	0 3 14	27 9



9" × 9"	0 1 21	15 0	each
12" × 12"	0 2 18	19 9	"
15" × 15"	0 3 14	23 6	"
18" × 12"	0 2 21	21 6	"
18" × 18"	1 0 2	26 9	"
24" × 12"	0 3 16	24 9	"
20" × 15"	0 3 14	25 0	"
24" × 15"	0 3 16	26 6	"
20" × 20"	1 0 14	30 0	"
24" × 18"	1 0 20	31 6	"
24" × 24"	1 1 13	36 6	"
30" × 18"	1 1 13	36 6	"
30" × 24"	1 3 0	44 3	"
30" × 30"	2 0 17	51 9	"
36" × 24"	2 0 17	52 9	"
36" × 30"	2 2 14	62 0	"

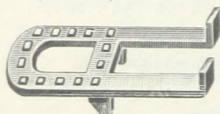


### No. 47BH MANHOLE COVER and FRAME × 3" deep With Hinge and Lock. Extra Heavy.

Inside Sizes	Weights C. Q. L.	Prices Plain each
18" × 18"	1 2 21	39 9
24" × 18"	2 1 0	48 9
24" × 24"	2 2 14	58 6
27" × 18"	2 2 0	57 0

Inside Sizes	Weights C. Q. L.	Prices Plain each
30" × 18"	2 2 0	58 3
30" × 24"	2 3 21	65 0
30" × 30"	3 1 0	73 6

No. 47B and 47 BH Manhole Covers and Frames fitted with Gun Metal Locks at  
2 9 each extra.



### No. 7 STEP IRON

13½" long. For 9" Brickwork.

5½ lbs. 8½ lbs.

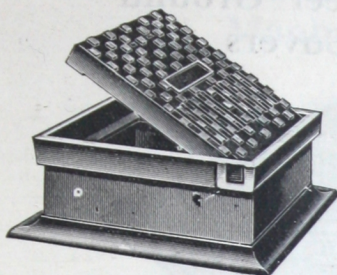
Price .. 1/6 .. 2/0 each.

Subject to Alteration with or without Notice.





## Manhole Covers and Frames



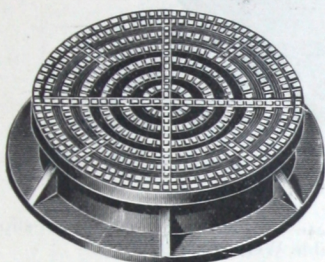
### No. 210B MANHOLE FOR HEAVY ROADWAY TRAFFIC

With Ventilated Top and Sheet Iron Dirt Pan

Outside Sizes	Inside Sizes	Deep	Weights			Prices each
			C.	Q.	L.	
21½ × 21½	17 × 17	11"	.3	2	14	102/0
26 × 26"	21½ × 21½	11"	.5	2	14	128/3
26 × 26" with Solid Top			.6	0	17	127/6

### No. 212B CIRCULAR VENTILATING MANHOLE COVERS and FRAMES

(Coated)



Size, 17½" diameter clear opening at bottom  
26" diameter over flange; depth 6½"

Price, with Dirt Pan, Ventilating .. 64/3 each

Price, with Solid Top, not Ventilating .. 52/9 "

Price, with Wood Blocks in cover, not Ventilating, 17" in clear .. 67/0 "

Price, with Wood Blocks, Ventilating .. 68/6 "

Approximate Weight with Solid Top 2½ cwt.

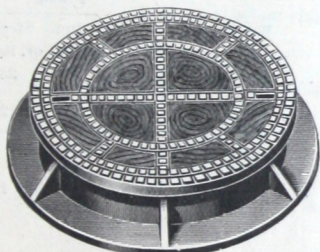
Size, 22" diameter clear opening, 32" diameter over flange and 27" over top; depth 6½". Weight, 5 cwt.

Price .. 131/3 each. Ventilating with Dirt Pan.

Size 22" diameter clear opening, 32" diameter over flange and 27" over top; depth 6½" with solid top. Weight, 6cwt. 2 qrs. 7 bs.

Price .. 124/9 each.

### No. 213B CIRCULAR MANHOLE COVER and FRAME



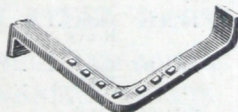
Fitted with Wood Blocks made Air-Tight, with India-Rubber Ring at Seat.

Depth, 6" diam. of clear opening, 17" and 22" Sizes over Flange, 25½" diam., 31" square.

	C.	Q.	L.	C.	Q.	L.
Approximate Weights	2	2	0	3	3	7
Prices ..	75/3			102/0		

### No. 218B INSPECTION EYE with Chain.

Sizes Overall ..	5½"	7½"
Sizes Inside ..	4"	6"
Weights ..	4 lbs.	7½ lbs
Prices ..	2/3	3/2 each



### No. 8 STEP IRON

Price ..	8½ lbs. each
	1/11 each

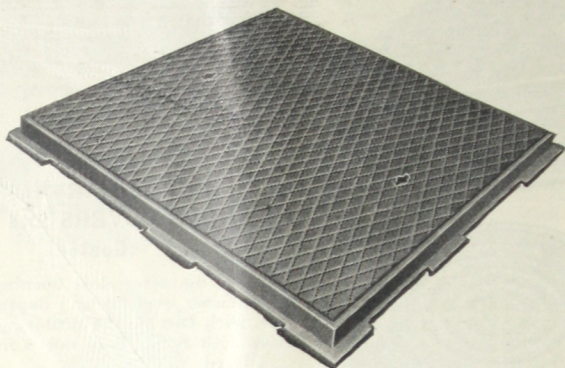
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Samuel Gratrix Junr. & Brother Ltd., Quay Street, Manchester

## Unbreakable Steel Ground Manhole Covers



### Mild Steel Cover

The "Unbreakable" Cover consists of a steel plate with chequer surface (non-slip). The Frame may be of Cast-Iron or of unbreakable Welded Steel.

The cover fits flush with the top of the frame, has two Keyholes for Lifting Keys, and may have locks fitted. A special Key is supplied when Locking Gear is fitted. When the key is turned through 90° the cover is thus unlocked and may be lifted with the key. When replaced it is impossible to remove the key without first locking the cover in place.

#### SIZES :

Cast-Iron and Mild-Steel Frames are same dimensions except for 30" x 30"

Size of Opening	Size of Cover	Depth Overall		Size Overall	WEIGHTS.				
					Weight of	Cover only	Frame		
		C.I.	M.S.				Cast-iron	Steel	
17½" x 17½"	20" x 20"	1-7/16"	1½"	21½" x 21½"	....	Light .0 1	12..0	23..0	23
						Heavy 0 1	20..	..	
23½" x 17½"	26" x 20"	1-7/16"	1½"	27½" x 21½"	....	Light 0 1	26..0	26½..0	27
						Heavy 0 2	6..	..	
23½" x 23½"	26" x 26"	1-7/16"	1½"	27½" x 27½"	....	Light 0 2	13..1	2.. 1	3
						Heavy 0 2	23..	..	
29½" x 29½"	32½" x 32½"	1-9/16"	1½"	C.I. 34½" x 34½" M.S. 33½" x 33½"	....	Light 1 0	0..1	22.. 1	11
						Heavy 1 0	12..	..	

#### PRICES :

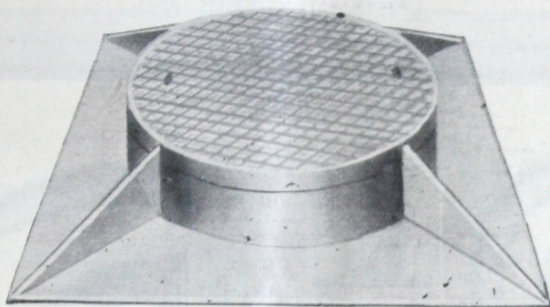
Daylight Sizes		Cover		Cast-Iron		Steel	
		Black.	Galvanized.	Frame		Frame	
18" x 18"	Light ..	18/9	25/3	6/7	..	19/9	
	Heavy ..	21/0	28/6	6/7	..	19/9	
24" x 18"	Light ..	22/0	30/9	7/6	..	21/6	
	Heavy ..	25/3	35/3	7/6	..	21/6	
24" x 24"	Light ..	25/9	36/3	8/3	..	23/3	
	Heavy ..	29/9	42/0	8/3	..	23/9	
30" x 30"	Light ..	36/3	52/9	13/3	..	30/9	
	Heavy ..	45/0	60/0	13/3	..	30/9	

Subject to Alteration with or without Notice.





## Unbreakable Steel Ground Manhole Covers



### 20 in. Dia. Mild Steel Cover and Frame

The Bearing Faces of this Cover and Frame are machined.  
This Cover will carry the heaviest road traffic without rocking.

Registered Design No. 774691.

#### UNBREAKABLE COVERS.

Weight of Cover and Frame : 2 cwt., 1 qr., 4 lbs.

Circular Cover 20" diameter opening.  $6\frac{1}{2}$ " depth.

Any other size required can be made.

	Black.	Galvanized.
20" diameter Cover and Steel Frame . . .	150/9	192/6

## IRON AND STEEL

**:: ROUNDS, SQUARES AND FLATS ::**  
**SHAFTING AND BRIGHT STEEL BARS**  
**ANGLES AND TEES. CHANNELS AND JOISTS**  
**BLACK STEEL SHEETS. GALVANIZED SHEETS**

*Prices on receipt of Specification.*

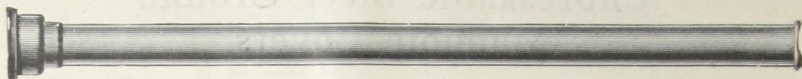
Subject to Alteration with or without Notice.



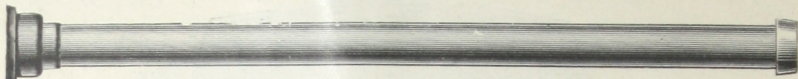


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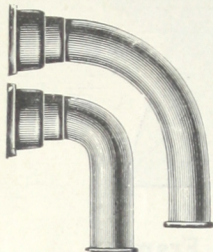
## Cast Iron Main Pipes & Connections—Water or Gas



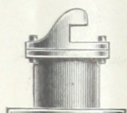
Spigot and Socket Pipe. No. 1.



Turned and Bored Pipe. No. 2.

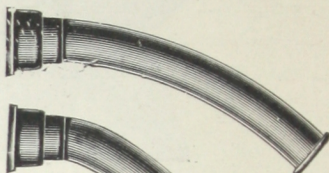


$\frac{3}{4}$  Bend, No. 6. Knee or Elbow, No. 7.

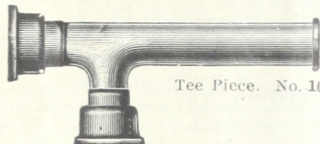
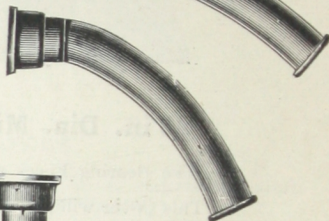


Ball Hydrant.  
No. 55.

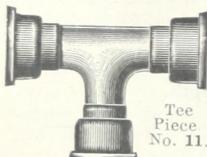
$\frac{1}{16}$  Bend,  
No. 4.



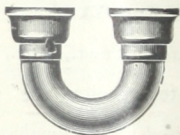
$\frac{1}{8}$  Bend,  
No. 5.



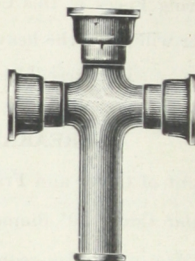
Tee Piece. No. 10.



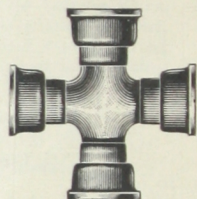
Tee  
Piece  
No. 11.



Socket Syphon. No. 23.



Cross Piece. No. 19.



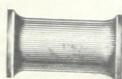
Cross Piece. No. 20.



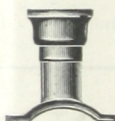
Blank  
Socket.  
No. 24.



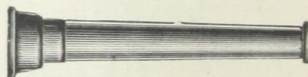
Blank  
Spigot.  
No. 25.



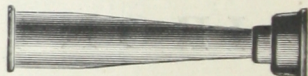
Thimble or  
Collar.  
No. 26.



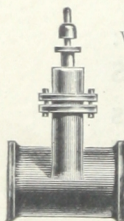
Saddle Socket.  
No. 27.



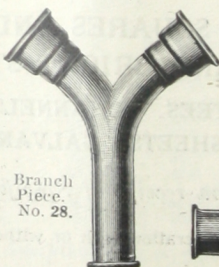
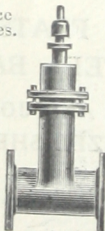
Diminishing Piece. No. 21.



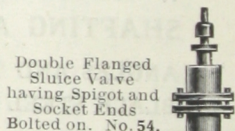
Diminishing Piece. No. 22.



Sluice  
Valves.



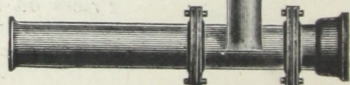
Branch  
Piece.  
No. 28.



Double Flanged  
Sluice Valve  
having Spigot and  
Socket Ends  
Bolted on. No. 54.

Double Socket.  
No. 52.

Double Flanged.  
No. 53.

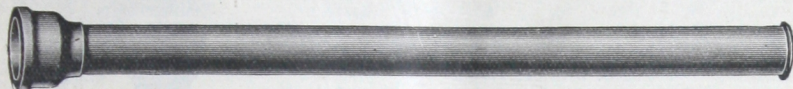


Prices on Application.





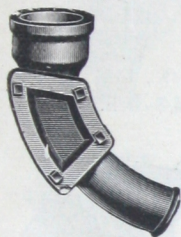
## Cast Iron Drain Pipes and Connections



CR.  
No. 1 Pipe.

	Sizes	3"	4"	4"	4"	5"	6" diam.
Weights	9' lengths	98	148	154	160	190	230 lbs. per 9' length.
Prices	6' "	4/0	5/6	5/9	6/0	7/3	8/9 per yard.
	3' & 4' "	4/9	6/3	6/6	6/9	8/3	10/3 "
		5/6	7/0	7/3	7/6	9/0	11/9 "

In 2 ton lots.—For lots under 2 tons and over 4 cwt., extra



No. 20 Long Bend.

With large Access Door and Four Gun-Metal Screws and Rubber Joint, made right or left hand.

Made in 90°, 95°, 100°, 112½°, 120°, 135°, 145°, 157½°

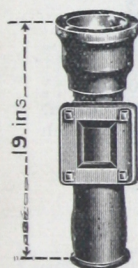
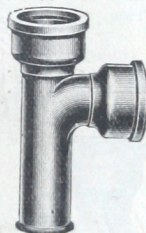
	Sizes	3"	4"	5"	6" diam.
Prices	.. ..	15/0	17/6	25/3	29/0 each.

Access or Clearing Doors can be fitted on any position of Bend or Branch Piece to order.

No. 21 Branch Piece.

Made 90°

	Sizes	2"	3"	4"	5"	6" diam.
Prices	.. ..	6/6	8/3	10/3	15/9	21/0 each



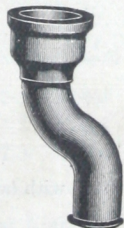
No. 29 Short Pipe.

19" long, with large Access Door, Gun-Metal Screws and India-rubber Washer.

	Sizes	3"	4"	5"	6" diam.
Prices	.. ..	16/9	18/9	22/3	25/6 each.

No. 30 Swan-Neck.

	Sizes	3"	4½"	6"	9"	12" proj.
3" diam	.. ..	4/9	5/3	5/6	5/9	6/6 each
4" diam	.. ..	6/9	7/0	8/0	8/3	9/0 "
5" diam	.. ..	9/3	9/6	10/3	10/6	11/3 "
6" diam	.. ..	11/3	11/6	12/9	13/0	13/3 "



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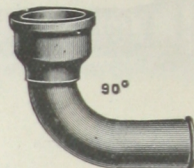
Samuel Gratrix Junr. & Brother Ltd., Quay Street, Manchester

## Cast Iron Drain Connections

No. 8 Short Bend.

Made in 90°

Sizes	2"	3"	4"	5"	6" diam.
Prices	3/6	5/0	6/0	10/3	12/0 each.



No. 9 Short Bend.

Made in 95°, 100°, 112½°, 120°, 135°, 145°, 157½°

Sizes	2"	3"	4"	5"	6" diam.
Prices	3/6	5/0	6/0	10/3	12/0 each

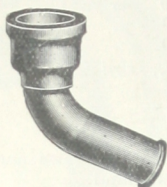


Illustration as above.

No. 9A Short Bend, ⅜" metal.

Made in 95°, 100°, 112½°, 120°, 135°, 145°, 157½°, 170°

Size 4" diam.

Price 6/3 each.

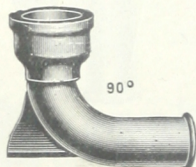
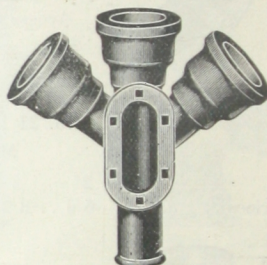
No. 34A Inspection Branch, Double.

135°

Size	4" × 4" × 4"
Price	35/9 each.

112½°

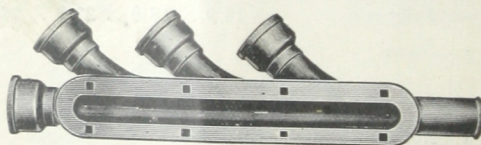
Size	6" × 4" × 4"
Price	42/6 each.



No. 11 Short Bend.

With Heel Rest. Made in 90°

Sizes	2"	3"	4"	5"	6" diam.
Prices	5/0	6/6	7/6	12/3	14/6 each



No. 35B Inspection Branch.

Fitted with large Access Door and Ten Gun-Metal Screws. 135°. 4" all through  
Branches on right hand. Price 70/6 each.

Subject to Alteration with or without Notice.





## Cast Iron Drain Connections



	No. 48 Trap.			
Sizes	3"	4"	5"	6"
With P Outlet ..	6/9	9/3	11/9	15/3 each
With Q Outlet ..	6/9	9/6	12/6	16/0 ..
With S Outlet ..	8/3	9/6	—	17/0 ..



No. 48A Trap.  
Made with P, Q or S Outlet, with Flanged Door, Galvanized Bolts, G.M. Nuts and Rubber Washer.

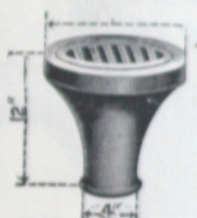
	No. 48A Trap.	
Sizes	3"	4"
With P or Q Outlet ..	16/9	21/0 each
With S Outlet ..	17/3	21/6 ..



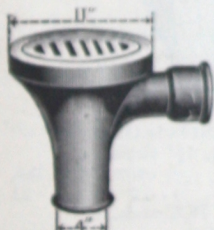
	No. 53 Air Inlet.	
Size, 11" x 8" on top with 4" diam. outlet ..	7/6	each
Size .. .. with 3" ..	6/9	..



	No. 54 Trapped Inlet.	
11" x 8" on top with 4" P or S Outlet.		
Price .. ..	23/6	each



	No. 60 Gulley Inlet.	
Sizes	4"	6" diam.
Prices .. ..	6/3	7/9 each.



	No. 61 Gulley Inlet.				
	With 2", 3" or 4" Branch.				
	1 Branch	2 Branches	2 Branches	3 Branches	4 Branches
		Straight	Right Angle		
4" x 2" ..	10/3	11/6	15/6	17/3	20/6
4" x 3" ..	10/3	11/6	15/6	17/3	20/6
4" x 4" ..	10/3	11/6	15/6	17/3	20/6

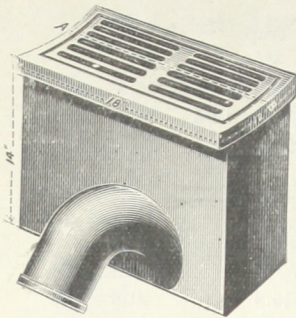
Full List of Connections sent on application.  
Subject to Alteration with or without Notice.





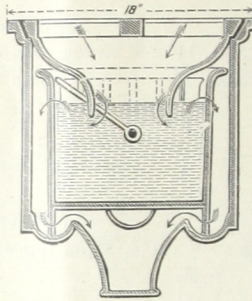
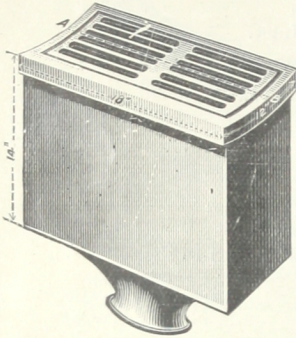
Samuel Gratrix Junr. & Brother Ltd., Quay Street, Manchester

## Double Trapped Gullies with Sludge Box



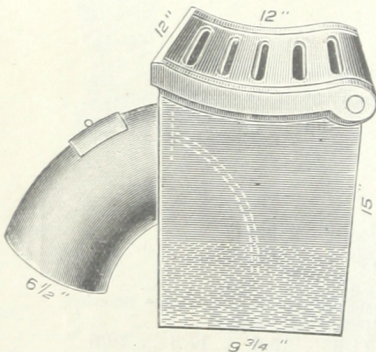
No. 1B with Side Outlet.

Sizes	Weights			Prices
	cwts.	qrs.	lbs.	
10" × 7" × 9" deep	0	1	22	..16/3 each
11" × 7½" × 10" "	0	2	15	..21/9 "
13¾" × 10" × 11" "	1	0	6	..31/9 "
18" × 12" × 14" "	1	3	0	..47/9 "
20" × 15" × 15" "	2	2	14	..67/0 "
24" × 16" × 17½" "	3	2	7	..89/0 "
30" × 18" × 17½" "	5	1	0	116/0 "



No. 2B with Bottom Outlet

Sizes	Weights		Prices
	c. q.	lb.	
10 × 7 × 9"	0	1 14	..14/9
11 × 7½ × 10"	0	2 0	..17/0
13¾ × 10 × 11"	0	3 14	..25/0
18 × 12 × 14"	1	2 14	..39/3
20 × 15 × 15"	2	1 21	..57/9
24 × 16 × 17½"	3	1 6	..82/9
30 × 18 × 17½"	5	0 0	..114/9

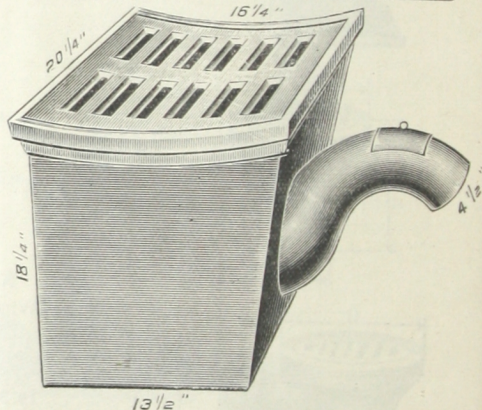


No. 3B "The Midget"

Grating, 1" thick, and with Mud Pan.

Weight	Weights		
	cwts.	qrs.	lbs.
..	1	0	9

Price, 42/9 each.



No. 4B with Side Outlet

Grating, 1¾" thick.

Weight	Weights		
	cwts.	qrs.	lbs.
..	2	2	21

Price, 78/6 each.

Subject to Alteration with or without Notice.

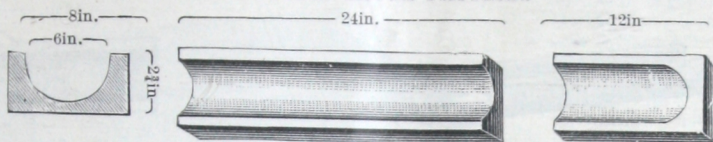




## Fireclay Floor Channels

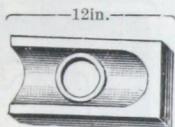
FOR URINALS, DAIRIES, LAUNDRIES, &c.

SOLID BLOCK PATTERN.

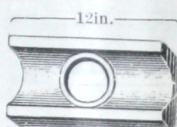


No. 6116. Made in 12", 18" and 24" lengths.

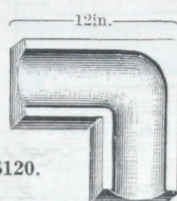
No. 6117.



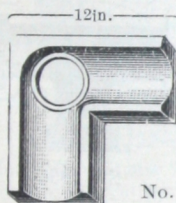
No. 6118.



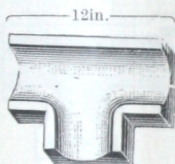
No. 6119.



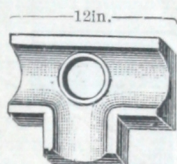
No. 6120.



No. 6121.



No. 6122.



No. 6123.

				Cane		White
No. 6116—Width of Channel,	4"	..	..	3/11	....	4/5 per ft.
"	6"	..	..	6/6	....	7/5 "
No. 6117—Stop Channel	4"	..	..	7/8	....	8/9 each
"	6"	..	..	13/0	....	14/10 "
No. 6118—Stop with outlet	4"	..	..	12/6	....	11/10 "
"	6"	..	..	15/5	....	17/7 "
No. 6119—Plain outlet	4"	..	..	6/6	....	7/5 "
"	6"	..	..	9/3	....	10/5 "
No. 6120—Angle	4"	..	..	11/7	....	13/3 "
"	6"	..	..	19/3	....	22/0 "
No. 6121—Angle with outlet	4"	..	..	14/3	....	16/3 "
"	6"	..	..	21/11	....	25/0 "
No. 6122—Junction	4"	..	..	11/7	....	13/3 "
"	6"	..	..	19/3	....	22/0 "
No. 6123—	4"	..	..	14/3	....	16/3 "
" with outlet	6"	..	..	21/11	....	25/0 "

The above Prices are for Unselected Quality.  
Best Selected Quality 10% extra.

Subject to Alteration with or without Notice.



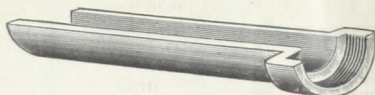


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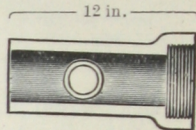
## Fireclay Half-Round Floor Channels

For Urinals, Dairies, Laundries, Etc.

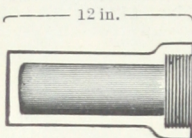
### HALF-ROUND SOCKETTED CHANNEL.



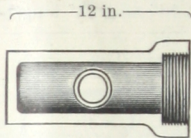
No. 7344. Made in 24" lengths.



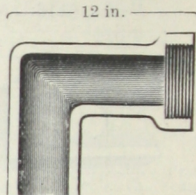
No. 7345.



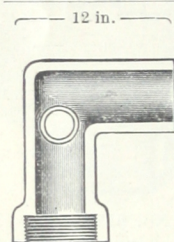
No. 7346.



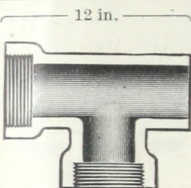
No. 7347.



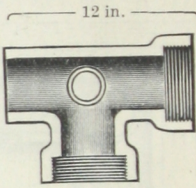
No. 7348.



No. 7349.



No. 7350.



No. 7351.

	Width of Channel	Cane	White
No. 7344—Channel .. .. .	4" ..	1 11	2 2 per ft.
" .. .. .	6" ..	2 7	2 11 "
No. 7345—Channel with outlet .. .. .	4" ..	5 4	6 1 each
" .. .. .	6" ..	6 4	7 2 "
No. 7346—Channel, with stop end .. .. .	4" ..	5 9	6 7 each
" .. .. .	6" ..	8 2	9 4 "
No. 7347—Channel, with stop end and outlet .. .. .	4" ..	8 6	9 8 "
" .. .. .	6" ..	10 7	12 1 "
No. 7348—Channel Bend .. .. .	4" ..	7 3	8 3 "
" .. .. .	6" ..	10 7	12 1 "
No. 7349—Channel Bend, with outlet .. .. .	4" ..	9 10	11 3 each
" .. .. .	6" ..	13 3	15 1 "
No. 7350—Channel Junction .. .. .	4" ..	5 9	6 7 "
" .. .. .	6" ..	10 5	11 10 "
No. 7351—Channel Junction with outlet .. .. .	4" ..	8 5	9 7 "
" .. .. .	6" ..	13 0	14 10 "

The above Prices are for Unselected Quality.

Best Selected Quality 10% extra.

Subject to Alteration with or without Notice.



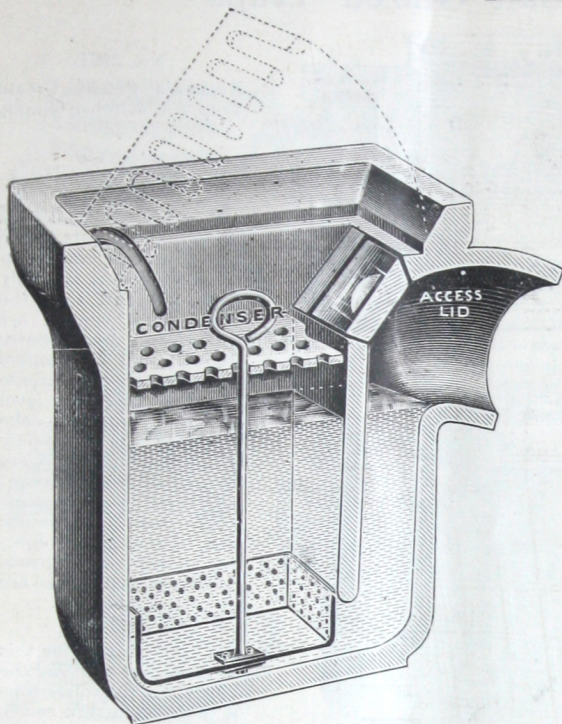


## Salt Glazed Traps

No. 2949.

### GREASE TRAP in Brown Salt Glazed Ware.

This Grease Trap consists of a stoneware gully with a specially deep seal. A perforated Mud Box of galvanized iron is fixed below the water line to intercept solid matter and so prevent its passage into drain. This box is provided with a handle for easy removal after service grating is raised. Between the top water level and the underside of the service grating a loose perforated tray or condenser of galvanized iron is placed which is supported on legs. The object of this tray is to cool the hot greasy water as it is discharged into gully, and by so doing to congeal the grease, whereby a large percentage of it is intercepted and so prevented from passing forward to the drain or sewer.

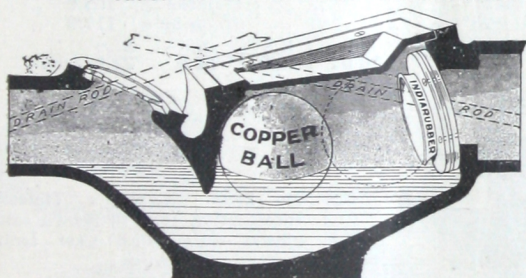


No. 2949. Grease Trap, in brown salt glazed ware, complete with mud box, condenser, and patent hinged surface grating.

Dimensions outside, 16"  $\times$  13 $\frac{1}{2}$ "  $\times$  19" deep, with 4" or 6" outlet.

When ordering, give size of outlet required.

NOTE.—4" outlet will be sent unless otherwise ordered. 60/- each. 60/- each.

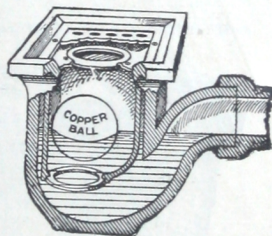


No. 6495. Couzens' Anti-Flooding Ball Trap Interceptor, in brown salt glazed ware. For 4" 6" and 9" drains.

These Traps are to prevent the back-flow of tidal water and uprisings of sewer gas, and are automatic in action.

No. 6495. Salt Glazed Trap,

	4"	6"	9" diam.
Complete as shown . .	100/0	140/0	215/0 each



No. 6491. Couzens' Anti-Flooding Trap, in brown salt glazed ware.

For 4" and 6" drains.

No. 6491. Salt Glazed Trap, Complete as shown

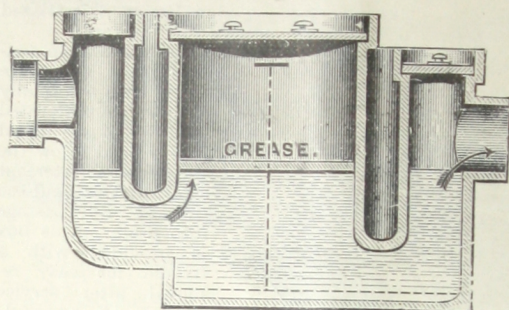
4" dia.,	77/6
6" dia.,	77/6 each

Subject to Alteration with or without Notice.

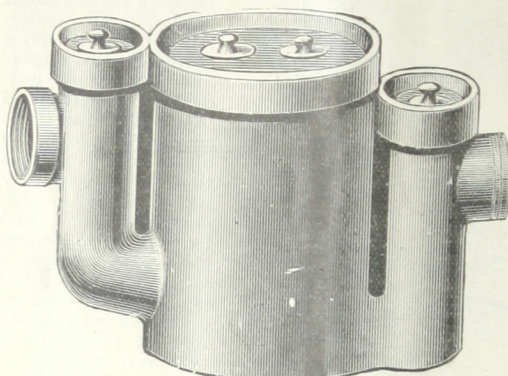




## Salt Glazed Traps



(Section of 2961)



(Elevation of 2961)

	Grease Compartment			
Small Size	12 $\frac{1}{2}$ "	$\times$ 10 $\frac{1}{2}$ "	$\times$ 17" deep, inside sizes, with 4" outlet ..	73/0 each
Medium Size	12 $\frac{1}{2}$ "	$\times$ 10 $\frac{1}{2}$ "	" " " 6" outlet ..	86/0 "
Large Size	15"	$\times$ 12"	" " " 4" outlet ..	105/0 "
Extra Large Size, 15" $\times$ 12" $\times$ 25"	"	"	" " " 6" outlet ..	117/0 "

Galvanized Grease Lifters for do.	S/S	M/S	L/S	EL/S
	16/0	19/0	22/0	22/0 each

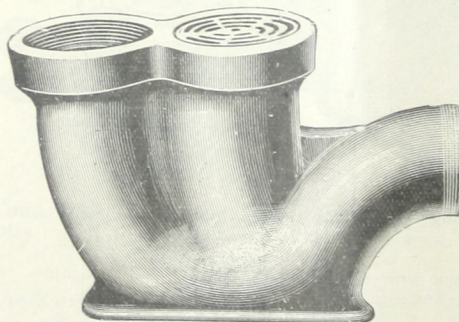
No. 2961.

Buchan's Patent Grease Trap for Kitchen Sinks, etc.

In Brown Salt Glazed Ware.

The grease collects in the large central compartment whence it is easily removed; and thus the drain pipes beyond are kept clean. As the water from the sink both enters and leaves the grease receptacle below the level on which the grease cake if formed, the latter may be allowed to accumulate for some time without presenting any obstacle to the passage of water; thus obviating an objection to which many grease traps at present in use are liable.

The best position for this Trap is just outside the wall where the waste pipe or drain from sink comes out.



No. 2999. — Gratrix's "Times" Intercepting Trap in brown salt glazed ware, with Cast Iron Grating.

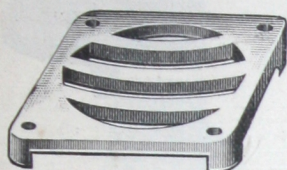
For 4" drains 8/0 each  
For 6" drains 11/6 "

Subject to Alteration with or without Notice.





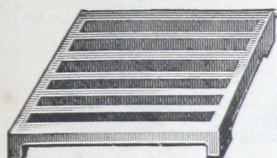
## Gulley Gratings



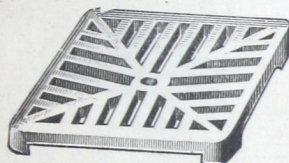
No. 211.			
Sizes	Weights	Sizes	Weights
4"	1 lb. each ..	7½"	6 lbs. each
4½"	2 lbs. ,, ..	8"	6½ lbs. ,,
5"	2½ lbs. ,, ..	8½"	7 lbs. ,,
5½"	3 lbs. ,, ..	9"	8 lbs. ,,
6"	3 lbs. ,, ..	9½"	9 lbs. ,,
6½"	5 lbs. ,, ..	10"	11½ lbs. ,,
6¾"	4½ lbs. ,, ..	11"	22 lbs. ,,
7"	5 lbs. ,, ..	12"	20 lbs. ,,
Price .. ..		22/3 per cwt.	

### No. 211a (Illustration as above).

6" × 6"	.. .. .	1½ lbs. each, with toes
6" × 6"	.. .. .	1½ lbs. each, no toes.
Price .. .. .		25/6 per cwt.



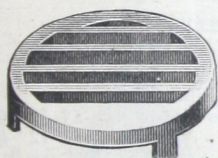
No. 212.			
Sizes	Weights	Sizes	Weights
4"	1½ lbs. each ..	8"	6 lbs. each
4½"	2 lbs. ,, ..	9"	7 lbs. ,,
5"	2 lbs. ,, ..	9½"	8 lbs. ,,
5½"	3½ lbs. ,, ..	10"	7 lbs. ,,
6"	3½ lbs. ,, ..	11"	9 lbs. ,,
6½"	4 lbs. ,, ..	12"	14 lbs. ,,
7"	5 lbs. ,, ..		
Price .. .. .		22/3 per cwt.	



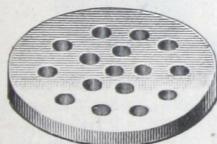
No. 213.			
Sizes	Weights	Sizes	Weights
4"	1½ lbs. each ..	9½"	10 lbs. each
5"	2½ lbs. ,, ..	10"	11½ lbs. ,,
5½"	3½ lbs. ,, ..	12"	15 lbs. ,,
6"	4 lbs. ,, ..	14"	22 lbs. ,,
7½"	7½ lbs. ,, ..	15"	27 lbs. ,,
8"	8 lbs. ,, ..	16"	28 lbs. ,,
8½"	8 lbs. ,, ..	18"	32 lbs. ,,
9"	9 lbs. ,, ..		
Price .. .. .		22/3 per cwt.	

### No. 213a. (Illustration as above).

6" × 6"	.. .. .	2 lbs. each, with toes.
6" × 6"	.. .. .	1½ lbs. each, no toes.
Price .. .. .		25/6 per cwt.



No. 214.			
Sizes	Weights	Sizes	Weights
4"	1½ lbs. each ..	7½"	4½ lbs. each
4½"	1½ lbs. ,, ..	8"	4 lbs. ,,
5"	2 lbs. ,, ..	9"	6½ lbs. ,,
5½"	2½ lbs. ,, ..	10"	7½ lbs. ,,
6"	2½ lbs. ,, ..	11"	10 lbs. ,,
7"	3½ lbs. ,, ..	12"	14 lbs. ,,
Price .. .. .		22/3 per cwt.	



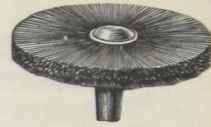
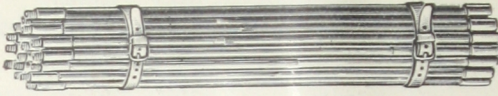
No. 215.			
Sizes	Weights	Sizes	Weights
4"	1 lb. each ..	8"	4 lbs. each
5"	1½ lbs. ,, ..	11"	7 lbs. ,,
6"	2 lbs. ,, ..	12"	8 lbs. ,,
7"	3 lbs. ,, ..		
Price .. .. .		22/3 per cwt.	

Subject to Alteration with or without Notice.



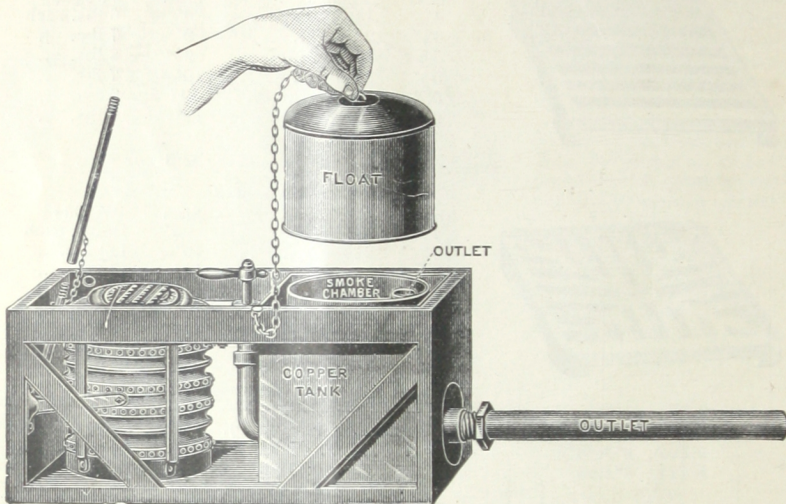


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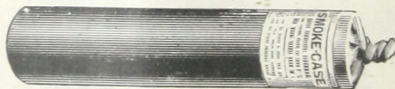
1221.

- No. 1221. Complete Set of Drain Clearing Machinery, consisting of ten 3 ft. Malacca Canes fitted with brass screws, one Clearing Wheel, one 4" Leather Plunger, one 6" Leather Plunger, one 8" Whalebone Brush, one Double Worm Screw, one Archimedeian Screw, one Jointed Scraper, and one pair Leather Straps . . . . . 44/0 Set



Machine One-Eighth full size. Weight 23 lbs.

- No. 6497. "Eclipse" Drain Testing Machine, with Iron Pipe Outlet and including suitable rubber tube, complete as shown . . £7 15 0  
Deal Painted Case for same . . . . . £1 12 0  
Smoke Paper . . . . . 9d. per lb.



- No. 2995. Smoke Cases . . . . . 6" 10" long  
1/0 1/4 each

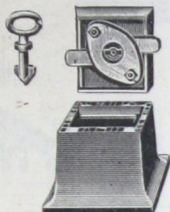
Subject to Alteration with or without Notice.





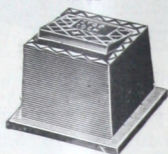
## Stop Tap Boxes

WIGAN PATTERN. WR



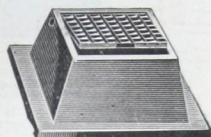
6" x 5 1/4" x 4 1/4" deep 3/7 each.

ST. HELENS AND  
SOUTHPORT PATTERN.  
LH



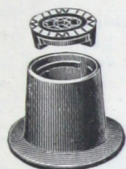
With Hinged Lid.  
5 1/2" x 5 1/2" x 5" deep  
2/7 each.

COVENTRY PATTERN.



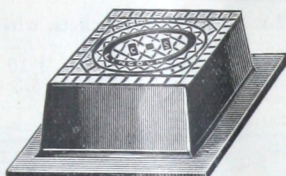
No. CW. With Hinged Lid  
6 3/4" x 6 3/4" x 4 1/2" deep  
4/6 each.  
4 1/2" x 4 1/2" 1/6 each.

LINCOLN PATTERN.



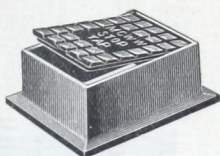
No. LPR.  
7" x 4 1/4" x 5" 2/3 each.

LINCOLN PATTERN.



No. LPS.  
Self-Locking by Twisting Lid.  
5 1/2" x 5 1/2" x 3" deep 2/6 each.

MANCHESTER PATTERN



No. 0201.  
With Hinged Lid.  
Stamping, 3d. each net, extra.  
8" x 6" x 3 1/4" deep 2/2 each.

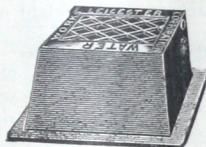


No. 0201S.  
4 1/2" x 4 1/2" .. 1/8 each.

No. 0201L.  
6" x 6" Light Pattern  
1/9 each.

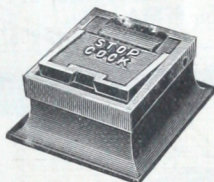
LEICESTER PATTERN.

LPL.

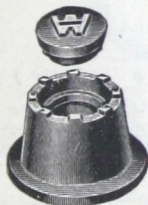


5 1/4" x 5 1/4" x 3 3/4" deep 2/0 each 7" x 6" x 3 1/2" deep 3/6 each.

NEWCASTLE PATTERN.  
No. N.P.C.



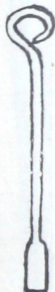
NOTTINGHAM PATTERN  
LNB.



Self-Locking by Twisting Lid.  
Diam. at Top 5 1/2 in., Deep 5 1/2 in.

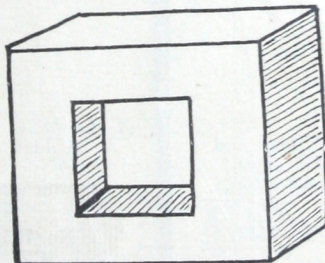
Price, 3/0 each.

STOP TAP  
KEYS.



Price 1/0 each

CONCRETE SQUARES to suit  
Manchester Pattern Stop Tap Boxes



No. 0202.

2/6 each.

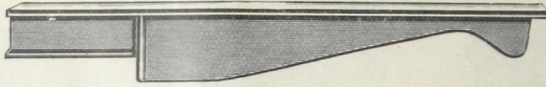
Prices of other Patterns to specifications.  
Subject to Alteration with or without Notice.





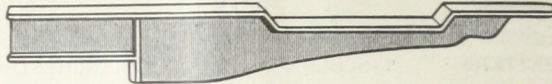
Samuel Gratrix Junr. & Brother Ltd., Quay Street, Manchester

## Cast Iron Brackets



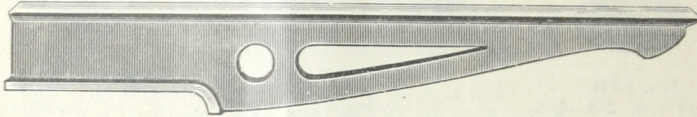
No. 6712. Cantilever Brackets, with 6" building lug.

Size	9"	10"	12"	13"	14"	15"	16"	17"	18"	19"	20"	21" proj.
Plain painted	1/3	1/4	1/5	1/6	1/7	1/8	1/9	1/10	2/0	2/9	3/0	3/3 each
Porcelain enamelled	4/9	4/9	4/10	4/10	4/10	5/0	5/0	5/3	5/6	6/0	6/3	6/6 each



No. 6712A. Cantilever Brackets, with 6" building lug.

Size	14"	15"	17"	20" proj.
Plain painted	1/7	1/8	1/10	3/0 each.
Porcelain enamelled	4/10	5/0	5/3	— each.



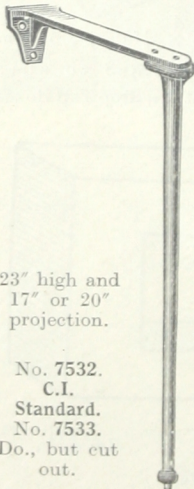
No. 6751. Heavy Cantilever Bracket, 21" projection, with 9" building lug, plain painted, or porcelain enamelled.

Plain painted, 21" 7/0 each.	Porcelain enamelled, 21" 12/6 each.
No. 6751A. Do. 25½" projection	Do.
Plain painted, 25½" 8/0 each.	Porcelain enamelled, 25½" 14/0 each.

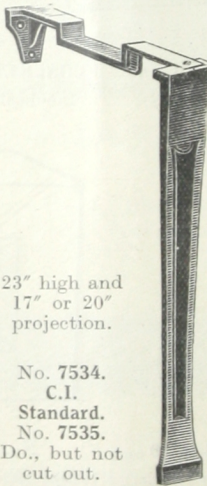


No. 7531. Cantilever Bracket, with 4 1/2" building lug.

Plain painted—	12"	14"	16"	18" proj.
	10d.	11d.	1/0	1/2 each
Porcelain enamelled—	12"	14"	16"	18" proj.
	3/2	3/3	3/6	4/2 each



23" high and 17" or 20" projection.  
No. 7532. C.I. Standard. No. 7533. Do., but cut out.



23" high and 17" or 20" projection.  
No. 7534. C.I. Standard. No. 7535. Do., but not cut out.

No. 7532 and 7533—

Plain painted—	23" x 17"	2/6	23" x 20"	2/9 each
White Porcelain or Cane enamelled—	23" x 17"	5/3	23" x 20"	5/6 each

No. 7534 and 7535—

Plain painted—	23" x 17"	2/6	23" x 20"	2/9 each
White Porcelain or Cane enamelled—	23" x 17"	5/3	23" x 20"	5/6 each

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## Mild Steel Gutter Brackets

made from 1" ×  $\frac{1}{4}$ " material.



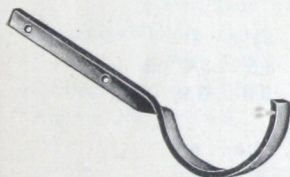
No. 1 Plain Spar for H.R. Gutter.

	3"	3 $\frac{1}{2}$ "	4"	4 $\frac{1}{2}$ "	5"	6"
1 Gross Lots .. .. .	30/0	32/6	33/9	36/3	37/6	41/3 gross
$\frac{1}{2}$ Gross Lots .. .. .	31/6	34/6	35/9	38/0	39/6	43/0 "
3 Doz. Lots .. .. .	33/0	36/3	37/6	40/0	41/3	45/9 "
2 Doz. Lots .. .. .	35/0	38/0	39/6	41/9	43/6	48/0 "
1 Doz. Lots .. .. .	3/2	3/4	3/5	3/9	4/0	4/6 dozen



No. 1S Spar with Scroll for H.R. Gutter.

	3"	3 $\frac{1}{2}$ "	4"	4 $\frac{1}{2}$ "	5"	6"
1 Gross Lots .. .. .	37/6	40/0	41/3	43/9	44/0	48/9 gross
$\frac{1}{2}$ Gross Lots .. .. .	39/6	42/0	43/6	46/0	47/6	57/3 "
3 Doz. Lots .. .. .	41/3	44/0	45/9	48/0	50/0	53/9 "
2 Doz. Lots .. .. .	43/6	46/3	48/3	50/9	52/6	56/6 "
1 Doz. Lots .. .. .	3/9	4/1	4/6	4/6	4/9	5/0 dozen



No. 2 Side Spar for H.R. Gutter.

Prices on application.



No. 3 Driving Hangars.

	3"	3 $\frac{1}{2}$ "	4"	4 $\frac{1}{2}$ "	5"	6"
1 Gross Lots .. .. .	30/0	33/0	37/0	40/0	42/6	45/0 gross
$\frac{1}{2}$ Gross Lots .. .. .	31/6	34/6	39/6	42/0	45/0	47/6 "
3 Doz. Lots .. .. .	33/0	36/3	41/3	44/6	47/6	50/0 "
2 Doz. Lots .. .. .	35/0	38/0	43/6	47/0	50/0	52/6 "
1 Doz. Lots .. .. .	3/2	3/4	4/1	4/3	4/5	4/9 dozen

Other Designs. Prices on Application.

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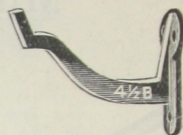




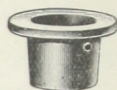
Samuel Gratrix Junr. & Brother Ltd., Quay Street, Manchester



## Cast Gutter Brackets



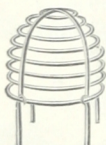
	3"	3½"	4"	4½"	5"	6"
H.R. Cast Gutter Brackets ..	2/6	2/6	2/6	3/0	4/3	5/6 doz.
O.G. Cast Gutter Brackets ..	3/0	3/0	3/0	4/3	5/6	7/3 ,,



## PIPE BLOCKS IN GROSS LOTS

Smaller Quantities Extra.

	1"	1½"	1½"	2"
Wood .. .. .	2/6	3/0	3/9	6/6 gross
Iron .. .. .	12/3	15/0	16/0	20/0 ,,



## GALVANIZED AND COPPER WIRE ROSES

	2"	2½"	3"	3½"	4"
Galvd. Wire Roses —					
Ordinary .. .. .	2/6	2/10	3/1	3/5	3/6 per doz.
Globular .. .. .	2/9	3/1	3/4	3/8	3/9 ,,
Copper Wire Roses —					
Ordinary .. .. .	5/3	5/7	5/11	6/4	6/9 ,,
Globular .. .. .	5/6	5/10	6/2	6/7	7/0 ,,

## COMPOSITION, &c.

Boiler Covering Composition .. .. .	1	2	3	15/3 per cwt.
Non conductive Dry Hairfelt, in sheets 32 ins x 26 ins.	11d.	1/2	1/5	per sheet.
Marginal Hairfelt, in Rolls, 24 ft. x 4 ins., canvas backed	4/0	4/6	5/4	per roll.
Slag Wool, 56 lb. bags .. .. .				25/- per cwt.

Not less than 56 lbs. supplied.

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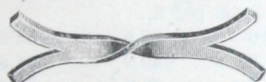


## Rainwater Pipe Nails



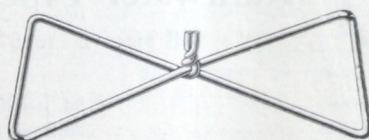
	2"	2½"	3"	3½"	4"	4½"
Odd Lots .. .. .	5½ d. lb.					
14 lb. Lots .. .. .	46/3	39/0	35/9	33/9	33/0	32/6 cwt.
28 lb. Lots .. .. .	44/0	36/6	33/6	32/0	31/3	30/9 ..
½-cwt. Lots .. .. .	42/0	34/9	31/6	30/3	29/9	28/9 ..
1-cwt. Lots .. .. .	40/0	33/3	30/0	28/9	28/3	27/6 ..
4 cwt. Lots Carr. pd. Ex Works	38/0	31/3	28/6	27/6	27/0	26/3 ..

## Wall Ties



	8" × ¾" × 3/16"	8" × ¾" × 1/8"
Self Colour 1 cwt. Lots .. .. .	14/0	15/6 cwt.
½ cwt. Lots .. .. .	16/3	17/3 ..
Blackened 1 cwt. Lots .. .. .	15/6	15/9 ..
½ cwt. Lots .. .. .	17/3	17/6 ..
Galvanized 1 cwt. Lots .. .. .	18/9	19/9 ..
½ cwt. Lots .. .. .	20/9	22/0 ..
Carriage paid direct from Works in 4 cwt. Lots.		
Approx. No. per cwt. .. .. .	325	450

## Wire Wall Ties



Lots of 1000 .. .. .	27/9 per 1000, carr. paid.
Lots of 500 .. .. .	29/6 per 1000, carr. forward.
Lots of 250 .. .. .	30/0 per 1000, carr. forward.

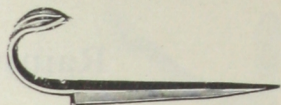
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Samuel Gratrix Junr. & Brother Ltd., Quay Street, Manchester

## Water Hooks



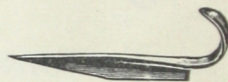
	$\frac{3}{8}$ "	$\frac{1}{2}$ "	$\frac{3}{4}$ "	1"	1 $\frac{1}{4}$ "	1 $\frac{1}{2}$ "
Odd Lots .. .. .	5 $\frac{1}{2}$ d. lb.					
14 lbs. and upwards .. ..	41/3	35/9	33/9	32/9	32/0	30/3 cwt.
28 lb. and upwards .. ..	38/9	33/6	32/0	31/0	30/3	28/6 "
$\frac{1}{2}$ cwt. Lots .. .. .	37/0	31/9	30/6	29/9	28/9	27/3 "
1 cwt. Lots .. .. .	35/0	30/0	28/9	28/3	27/6	25/9 "
4 cwt. Lots Carr. Pd. Ex Works	33/3	28/6	27/6	27/0	26/3	24/6 "



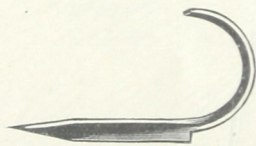
## Special Plain Water Hooks "C" Make Light

	$\frac{3}{8}$ "	$\frac{1}{2}$ "	$\frac{3}{4}$ "	1"
Odd Lots .. .. .	6d. per lb.			
14 lb. Lots .. .. .	45/3	44/0	42/6	40/9 cwt.
28 lb. Lots .. .. .	43/6	42/0	40/9	38/6 "
$\frac{1}{2}$ cwt. Lots .. .. .	41/3	40/0	38/6	37/0 "
1 cwt. Lots .. .. .	37/9	37/3	37/0	35/0 "
4 cwt. Lots Carr. Pd. Ex Works	36/3	35/9	35/0	33/6 "

## Patent Flanged Water Hooks "D" Make



	$\frac{3}{8}$ "	$\frac{1}{2}$ "	$\frac{3}{4}$ "	1"	1 $\frac{1}{4}$ "	1 $\frac{1}{2}$ "
Odd Lots .. .. .	7d. per lb.			7d. per lb.		
14 lb. Lots .. .. .	58/0 per cwt.			56/3 per cwt.		
28 lb. Lots .. .. .	55/3 "			53/9 "		
$\frac{1}{2}$ cwt. Lots .. .. .	52/3 "			51/0 "		
1 cwt. Lots .. .. .	50/0 "			48/6 "		
4 cwt. Lots Carr. Pd. Ex Works	47/6 "			46/3 "		



## Rainwater Pipe Clips

all sizes 2" to 6"

Odd Lots .. .. .	5d. per lb.
14 lb. Lots .. .. .	28/3 per cwt.
28 lb. Lots .. .. .	27/0 "
$\frac{1}{2}$ cwt. Lots .. .. .	25/3 "
1 cwt. Lots .. .. .	24/0 "
4 cwt. Lots Carr. Pd. Ex Works	23/0 "

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## Roofing Felts

### LEDPHALT LEAD & SHEET ASPHALT DAMPCOURSE.

In rolls of 8 yards long cut any required width up to 36" at 3/5 per square yard.

### LEDBIT LEAD & BITUMEN DAMPCOURSE.

In rolls of 8 yards long, cut any required width up to 36" at 4/0 per square yard.

### BASITE PURE BITUMEN DAMPCOURSE (HESSIAN BASE).

In rolls of 8 yards long, cut any required width up to 36"

No. 1 Quality. 1 8½ per square yard.

No. 2 Quality. 1/6 „

### ANDERITE PURE BITUMEN DAMPCOURSE.

In rolls of 8 yards long, cut any required width up to 36" at 1 3½ per sq. yard.

### DASON PURE BITUMEN DAMPCOURSE.

In rolls of 12 yards long, cut any required width up to 36"

2-Ply 10½d. per square yard.

3-Ply 1 0½ „

### STONIFLEX FELTS in 12-yard Rolls.

No. 1—16/3 per roll. No. 2—12/6 per roll. No. 3—9/9 per roll.

Carriage Paid on 8 Rolls No. 1, 12 Rolls No. 2, 16 Rolls No. 3 to any station U.K.

### STONIFLEX MASTIC.

2/9 per gallon. Carriage Paid on 10 gallons.

The price for the Mastic includes packages.

### TWINPLEX UNTEARABLE FELT.

In rolls of 24 yards × 1 yard wide at 19/3 per roll.

		Per Roll
Unbranded M C J	No. 2, 12 × 1 yd. . . . .	3 10½
"	in 20-roll lots . . . . .	3 9
"	No. 1, 12 × 1 yd. . . . .	4 3
"	in 20-roll lots . . . . .	4 1½

Rail consignments delivered free up to 100 miles from Manchester. 100-150 miles from Manchester 1d. per Roll extra.



### ROK ROOFING.

In rolls of 24 yards × 1 yard wide.

	1-Ply	2-Ply	3-Ply
	22/6	25/6	32/0
			38/3 per roll.

Including sufficient nails for laying each roll and cement for sealing the joints of the felt and coating the nail heads. Where nails and cement are not required the prices will be reduced by 3/0 per roll.

Where desired we can also supply "Rok" Roofing in rolls of 12 yards × 1 yard wide at proportionate prices. In that case, the reduction for nails and cement where not required will be 1/6 per roll.

### DASON BITUMEN ROOFING.

In rolls of 12 yards × 1 yard wide.

	1-Ply	2-Ply	3-Ply
	8/0	10/3	12/6 per roll.

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### HIPPO ROOFING.

In rolls of 12 yards  $\times$  1 yard wide.  
Standard Quality 5/0 Heavy Quality 7/0 per roll.

### ASPHALTED FLAX FELTS.

In rolls of 25 yards  $\times$  32" wide.  
White End Roofing 10d. per yd. run. No. 1 Inodorous 10d. per yd. run.  
Red End Sarking 8d. " No. 2 " 8d. "  
Black Sheathing 6d. " Brown Sheathing 7½d. "

### SANODOR INSULATING FELT.

In rolls of 25 yards  $\times$  32" wide 30/6 per roll.

### RUBEROID ROOFING (Standard Finish).

Rolls contain 24 square yards (216 square feet). Width 36".  
One roll covers approximately 200 square feet of roof surface.  
Price includes accessories for fixing, i.e., 1 packet ¾" galvanized clout nails and one-fifth Imp. gall. Ruberoid Cement.

NOTE—If rolls are desired to be in one length, please state so when ordering.

½-Ply Grey Ruberoid Roofing (Ex-Light 45 lbs.)	22/6	per roll
1-Ply " " " (Light 65 lbs.)	26/0	"
2-Ply " " " (Medium 85 lbs.)	32/9	"
3-Ply " " " (Heavy 105 lbs.)	39/6	"
1-Ply Red " " (Light 65 lbs.)	28/3	"
2-Ply " " " (Medium 85 lbs.)	36/6	"

Also packed in half rolls of 12 square yards at pro rata prices.

Deduct from price of Grey 3/4, Red 3/9, if accessories are not required.

We strongly advise the use of our Special Nails and Cement with Ruberoid Roofing to ensure satisfaction.



### STAREX ROOFING.

Rolls contain 12 square yards. Width 36". Price includes accessories for fixing.

1-Ply (Light 30 lbs.)	9/5	per roll.
2-Ply (Medium 40 lbs.)	11/7	"
3-Ply (Heavy 50 lbs.)	13/10	"

Deduct from price 1/6 if accessories are not required.

Starex accessories are packed in two roll lot sufficient for 24 square yards.

They are not packed for single 12 yard rolls.



### SLATE SURFACED RUBEROID ROOFING.

Made in one thickness, width 36". Rolls contain 12 square yards (108 square feet). One roll covers approximately 100 square feet. Price includes accessories, i.e., one-fifth Imp. gall. Black Fibre Cement and one packet ¾" Galvanized Clout Nails.

Red Slate Surfaced Ruberoid (Heavy 85 lbs.)	22/0	per roll
Green Slate Surfaced Ruberoid (Heavy 85 lbs.)	22/0	"

### RUBEROID STRIP SLATES.

In crates sufficient to cover 50 square feet of roof surface.

Price includes 1" Galvanized Nails for fixing.

Red or Green Octagonal	22/6	per crate
Slate Surfaced Ruberoid, for eaves, etc., in rolls of 36 lineal feet, 8½" wide	5/8	per roll

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### PLUVEX ROOFING FELT.

For use on Poultry Houses, Sheds and any small buildings, about the house, farm or factory. Rolls contain 12 square yards. Width 36"

Standard weight (22 lbs.) .. .. . 5/8 per roll.

Heavy weight (30 lbs.) .. .. . 7/10 "

### ZYLEX BITUMINOUS SLATERS' FELT.

For lining roofs under slates, tiles or metal. Absolutely inodorous, damp and waterproof. Does not harbour vermin, and will not rot or perish.

In rolls containing 24 square yards sufficient to cover 200 square feet of roof surface. (Weight 45 lbs.) .. .. . 9/6 per roll

(Weight 60 lbs.) .. .. . 13/6 "

### REINFORCED ZYLEX SLATERS' FELT.

Zylex Felt combined with a closely woven backing. For use over rafters without roof boarding. Does not puncture or tear when slates or tiles are fixed.

In rolls of 24 yards  $\times$  1 yard. Weight 60 lbs. .. 17/9 per roll

### ASPHALT SATURATED FELTS (Black).

A tough felt heavily impregnated with Asphalts for sheathing and lining work of all kinds. Damp-proof and inodorous.

No. 7, weight 20 lbs. per roll (24 yards  $\times$  1 yard) .. .. 6/10 per roll

No. 10, weight 30 lbs. " " " " .. .. 9/9 "

No. 16, weight 50 lbs. " " " " .. .. 15/0 "

### RUBEROID SARKING FELT.

Super quality for public and monumental buildings where permanent efficiency is essential.

Rolls contain 24 square yards. Width 36". No accessories supplied. Also packed in half rolls of 12 square yards.

$\frac{1}{2}$ -Ply (Ex-Light 45 lbs.) Ruberoid Sarking Felt .. .. 19/6 per roll

1-Ply (Light 65 lbs.) " " " " .. .. 22/6 "

### BUILDING AND INSULATING PAPERS.

For lining roofs and walls of Cold Stores and for use under slates, tiles, etc. Prices quoted on request.

### RUBEROID DAMPCOURSE. In Rolls of 72 lineal feet.

2-Ply—per yard super 1/3 3-Ply—per yard super 1/6.

### PLUVEX PURE BITUMEN DAMPCOURSE. (Approximate Weights).

In rolls of 24 lineal feet. In any width up to 36"

No. 0, woven base  $5\frac{1}{2}$  lbs. .. .. 1/10 per yard super

No. 1, woven base 7 lbs. .. .. 2/0 "

No. 2, fibre base  $5\frac{1}{2}$  lbs. .. .. 1/4 "

No. 3, lead lined woven base 9 lbs. .. .. 4/0 "

No. 4, lead lined fibre base  $7\frac{1}{2}$  lbs. .. .. 3/5 "

Nos 3 and 4. Dampcourses have lead lining weighing  $3\frac{1}{2}$  ozs. per square foot.

They can also be supplied with lead lining in various weights. Prices on request.

### NAILS. Galvanized Clouts.

1"—per packet, sufficient for one crate of Strip Slates. .. .. 1/3

$\frac{7}{8}$ "—per packet, sufficient for roll of Slate Surfaced Ruberoid .. .. 10d.

$\frac{3}{4}$ "—per packet, sufficient for 24-yard roll of Standard Ruberoid .. .. 2/3

$\frac{3}{4}$ "—in bags 28 lbs. and up .. .. . 8d. per lb.

$\frac{1}{2}$ " Galvanized Clouts (Pluvex Nails) in boxes of 10 cartons, each carton containing  $1\frac{1}{2}$  lbs. .. .. . 1/2 per carton

$\frac{3}{4}$ " Copper Clouts. Allow  $2\frac{1}{2}$  lbs. per 24-yard roll. Prices on request.

Nails are quoted subject to market fluctuations.

Subject to Alteration with or without Notice.





**RUBERINE ROOF PAINT.** (Liquid, ready for use).

For preserving Ruberoid Roofs. The use of tar or other preservative paint may prove highly injurious. One gallon will cover 200 square feet of roof surface.

	Brls. or $\frac{1}{2}$ -brls.	10-gall. drums.	5-gall. drums	1-gall cans
Black, per gallon..	4/3	5/4	6/0	6/6
Red, per gallon ..	5/7	6/9	7/3	8/0
Green, per gallon ..	8/6	9/6	10/2	10/9

**RUBEROID COMPOUND.** (Solid, requires heating for use).

For fixing Ruberoid on concrete surfaces. For fixing wood block flooring.

In $\frac{1}{2}$ and 1 cwt. cases	28/9 per cwt.
In barrels, approximately 3 cwt.	17/6 ..

**RUBEROID CEMENT.** (Liquid, ready for use).

Black, per can	for full roll, 1/6	half roll, 1/3
Red, per can	for full roll, 1/11 $\frac{1}{2}$	half roll, 1/4

**RUBEROID MASTIC.** (Semi-Liquid, ready for use).

Allow 28 lbs. for each roll of Roofing to be fixed.

56 lbs. tins	22/0 each
28 lb. tins	11/3
14 lb. tins	6/9 ..

**PLUVEX PLASTIC ROOFING COMPOUND.**

A ready-to-use bituminous roofing paste. For pointing, stopping leaks, coating roofs and gutters. Applied with a trowel.

	2 lb.	7 lb.	14 lb.	28 lb.	56 lb.	1 cwt.	3-cwt. brls.
Black	1/9	5/2	8/4	12/9	21/3	40/6	27/6
Maroon Red	1/11	6/0	9/9	16/2	30/0	56/6	52/6

**RUBEROID STRIP.**

For Ruberoid Roofs in exposed positions, glazing bars, etc.  
Per roll of 72 lineal feet.

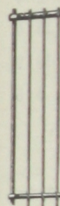
	1-Ply	2-Ply	3-Ply	1-Ply Red	2-Ply Red
1" wide	1/2	1/4	1/7	1/3	1/6
2" wide	1/8	2/3	2/6	1/9	2/4
6" wide	4/3	5/5	6/9	4/6	6/3

**WEIGHT.**—Weights per roll shown above are average weights taken on a 20-roll lot, without including weight of accessories.

**PACKING.**—No charge is made for ordinary packing. Cement and Paint Drums and Barrels are charged and credited on return, carriage paid, to Works, London.

**DELIVERY.**—Carriage paid to nearest Railway station.  
Pluvex and Starex Roofings, on 20 rolls and upwards;  
Zylex Slaters' Felt, 10 rolls and upwards;  
Ruberoid Roofings and Sarkings, on 8 rolls and upwards;  
Or on any order of nett value of £12/10/0 and upwards;  
Dampcourses, Paints and Plastics, on £8 lots and upwards.

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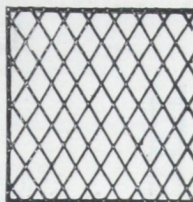


## Galvanized Wire Lattice Work

All Galvanized after made.

SQUARE AND DIAMOND MESH. Price per sq. ft.

Square Mesh Gauge.						Diamond Mesh Gauge.					
Mesh	14	13	12	11	10	Mesh	14	13	12	11	10
$\frac{1}{2}$ "	1/0	1/1	1/3	1/4	1/6	$\frac{1}{2}$ "	1/3	1/5	1/6	1/10	2/0
$\frac{3}{4}$ "	9d.	10d.	1/0	1/1	1/3	$\frac{3}{4}$ "	1/0	1/2	1/3	1/5	1/7
1"	7 $\frac{1}{2}$ d.	8 $\frac{1}{2}$ d.	9 $\frac{1}{2}$ d.	11 $\frac{1}{2}$ d.	1/1	1"	8d.	9d.	10 $\frac{1}{2}$ d.	11 $\frac{3}{4}$ d.	1/1 $\frac{1}{2}$
1 $\frac{1}{4}$ "	—	6 $\frac{3}{4}$ d.	8d.	9 $\frac{3}{4}$ d.	10 $\frac{1}{2}$ d.	1 $\frac{1}{4}$ "	—	7 $\frac{3}{4}$ d.	9d.	10 $\frac{3}{4}$ d.	11 $\frac{3}{4}$ d.
1 $\frac{1}{2}$ "	—	—	7 $\frac{1}{2}$ d.	8 $\frac{3}{4}$ d.	9 $\frac{1}{2}$ d.	1 $\frac{1}{2}$ "	—	—	8 $\frac{1}{2}$ d.	9 $\frac{1}{2}$ d.	11 $\frac{1}{2}$ d.
2"	—	—	6 $\frac{1}{2}$ d.	7 $\frac{1}{2}$ d.	8 $\frac{1}{2}$ d.	2"	—	—	6 $\frac{3}{4}$ d.	8 $\frac{3}{4}$ d.	9 $\frac{1}{2}$ d.



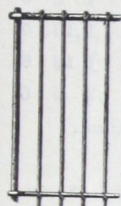
Strong Frame all round

Straight Laced Mesh.

Price per square foot. Gauge.

Mesh	14	13	12	11	10
$\frac{1}{2}$ "	9d.	10d.	11d.	1/2	1/3
$\frac{3}{4}$ "	8d.	9d.	10d.	11d.	1/2
1"	8d.	8 $\frac{1}{2}$ d.	9d.	11 $\frac{1}{2}$ d.	1/1

These prices are for pieces containing not less than 10 sq. ft. and to be not less than 2' wide.



Strong Frame all round.

**IMPORTANT.**—In ordering it is necessary to state which measurement is the **height** and which is the **width**.

All measurements are understood to be **extreme outside**—that is, over knuckles of framework.

*We shall be pleased to quote special terms for large specifications.*

## GALVANIZED WASTE PAPER BASKETS.

For Parks, Public Gardens, etc.

Made of  $\frac{3}{4}$ " mesh Wirework, 2' 6" high, 18" diameter, mouth 20" diameter.

With enamelled Notice Plate, "For Waste Paper, &c." 17/3 each.  
Without Notice Plate . . . . . 15/0 each.

Also various other shapes, to hang on Railings, Lamp Standards, etc.



## GALVANIZED BUCKETS.



No.	Description	W't of						doz.
		12"	10"	11"	12"	13"	14"	
ST99	Seamed lbs.	32/34	11/3	12/0	13/0	14/6	16/6	
ST100	Do.	36/38	12/6	13/3	14/0	15/9	17/6	
101R	Do.	48	—	—	17/6	20/3	—	
102BH	R.S.F.E.	60	—	20/6	21/9	23/3	—	
"	Do.	72	—	22/0	23/3	24/9	—	
"	Do.	84	—	25/0	26/3	27/9	—	
103BH	Banded Top	84	—	27/3	28/6	30/0	—	

Prices are for unbroken bundles of 1 doz. Sma llots extra.  
Other sizes, weights and patterns quoted specially.

## BUILDERS' SCREENS.

Mesh	Gauge	Heavy	Medium	Light
$\frac{1}{8}$ "	16	57/9	40/6	33/9 each.
3/16"	13	54/0	34/6	32/3 "
$\frac{1}{4}$ "	10	52/6	36/9	30/0 "
5/16"	12	51/0	33/9	27/0 "
$\frac{3}{8}$ "	10	51/0	33/9	27/0 "
$\frac{1}{2}$ "	10	51/0	33/9	27/0 "



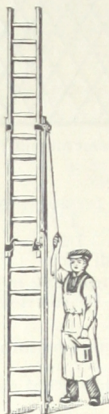
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Samuel Gratrix Junr. & Brother Ltd., Quay Street, Manchester

## Extension Ladders, Ladder Brackets, Etc.



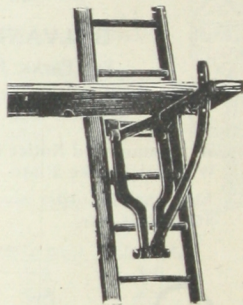
### PRICE LIST.

Ref. letter	No. of Steps as Step Ladder	No. of Steps when fully extended	Height of Ladder closed	Height of Ladder extended	PRICE £ s. d.
A ..	5 ..	9 ..	4' 3" ..	6' 6" ..	0 18 0
B ..	6 ..	11 ..	5' 0" ..	8' 3" ..	1 0 3
C ..	7 ..	13 ..	6' 0" ..	10' 0" ..	1 2 6
X ..	8 ..	15 ..	6' 9" ..	11' 6" ..	1 10 0
Y ..	9 ..	17 ..	7' 6" ..	13' 0" ..	1 19 0
Z ..	10 ..	19 ..	8' 7" ..	15' 0" ..	2 3 6

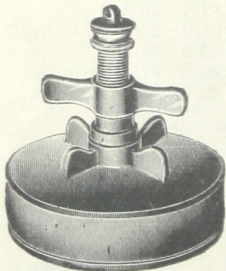
Carriage paid to any Goods Station in Great Britain.  
Please state Reference Letter when ordering.

No. 1015N.

Iron Ladder Brackets  
41/6 per pair.



1015N.



7227.

No. 7227.

Galvanised Screw Drain Stopper for testing Drains  
with air, water, or smoke.

For 4 6 9 inch Drains  
10/0 16/0 30/0 each.

Subject to Alteration with or without Notice.

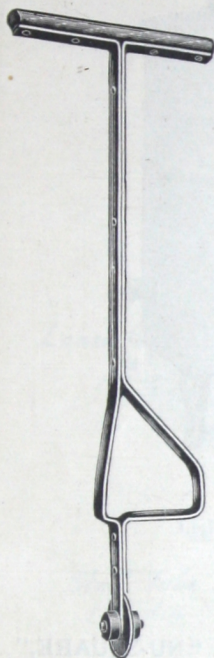


# The "Gratrix" Tongue Cutter

(Reg. No. 792833).



A SIMPLE WORKING TOOL, SAVING HOURS.



No more chiselling to cut out tongue of Floor Boards.

Just insert the Cutting Wheel in the Joint and run the tool along under foot pressure.

Length overall, 33".

No broken or badly marked Floor Boards to replace.

Cuts easily and keenly.

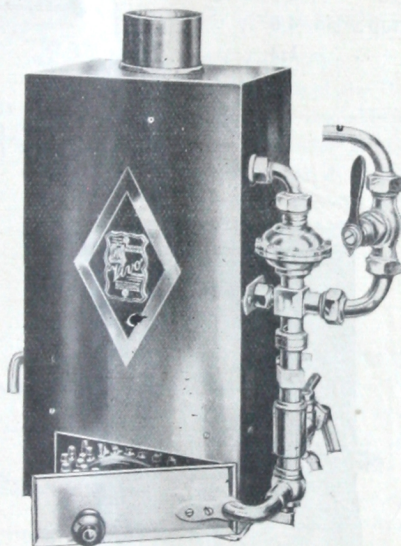
Price : 12/6 each, carriage paid.

## New "Vivo" Water Heater

Entirely Automatic and Labour-Saving.

**HOT WATER INSTANTLY NIGHT OR DAY.**

At any Time : Without Waiting : At any Heat  
In any Quantity.



Dimensions : 21" x 11" x 9" (size of body).

Heating capacity 2½ gallons per minute raised in temperature 40° Fahr.

### PRICES :

Polished Copper .. .. .	£10 0 0
Copper Bronzed .. .. .	£11 5 0
Chromium-Plated .. .. .	£12 16 0
Extra for Porcelain Enamelled Bracket .. .. .	5 0

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Samuel Gratrix Junr. & Brother Ltd., Quay Street, Manchester

## Gas Washing Boilers

This Boiler is being largely used on Housing Schemes. It has a Galvanized Sheet-Steel outer case and lid; loose hard bright copper pan well tinned; painted pressed steel feet; copper condenser; and ring gas burner.

Ten Gallons.

Price, as above .. 14/6 each

Copper Lid .. 4/9 extra

Draw-off tap at side 4/6 ,,

Gas tap .. .. 1/3 ,,

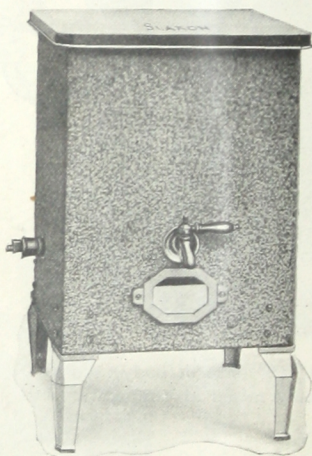


No. 3A.

10 Gallons.

29" Overall Height.

19" Diameter.



10 Gallons.

31" Overall Height.

20" Square.

### THE "NU-SQUARE," with Table Top.

Ten Gallons capacity,  
Mottled Grey Casing,  
Gas Burner and  
Chromium-plated  
Draw-Off Tap.

Price 57/6 each.

"Junior" Model, eight  
gallons capacity, com-  
plete as above, but  
30" high overall and  
17½" square.

Price 51/6 each.

Other Lists on application.

Subject to Alteration with or without Notice.

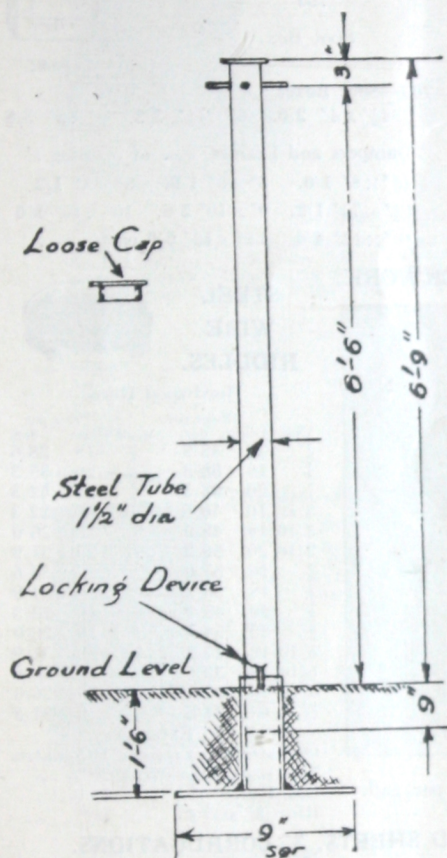




## An All-Steel Clothes Post

at a price

## Competitive with Wood



### ADVANTAGES OF THE STEEL POST.

#### APPEARANCE.

The Post is composed of tubular steel and finished with a high class quality dark green paint. The neatness and the finish ADD to the tone of your garden. The same cannot be said of the cumbersome and ugly-looking wooden ones.

#### DURABILITY.

The life of the Post is protected by the metal being treated with "ANODITE" Rustless Paint. Consequently it will last a considerable period longer than wood, as the base socket of the latter becomes rotted after a short period.

#### ADAPTABILITY.

By the locking process of the main post into the ground socket you are able to dismantle same quickly, and utilise the loose cap which fits into the ground-socket, thus protecting the inside from climatic conditions.

Price 7/6 each post.

*This price is competitive with any other type of clothes post on the market.*

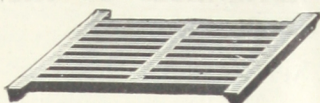
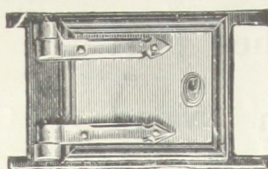
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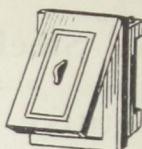
Samuel Gratrix Junr. & Brother Ltd., Quay Street, Manchester

## Boiler Door Frame and Grate



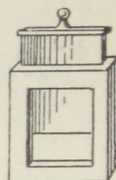
No. 194.

Sizes 6" 7" 8" 9"  
Prices 2/3 2/6 3/0 3/6 set  
No. 185, Heavy Pattern.  
Sizes 10" 12"  
Prices 5/9 .. 10/3 set



703

Soot Box.



DAMPER & FRAME.

703—Soot Boxes :

$4\frac{1}{2}" \times 4"$  2/0.  $6" \times 4\frac{1}{2}"$  2/3.  $9" \times 6"$  3/8

Dampers and Frames, size of opening :

$4\frac{1}{2}" \times 8"$  1/0.  $5" \times 6"$  1/0.  $5" \times 9"$  1/2  
 $5\frac{1}{2}" \times 7\frac{1}{2}"$  1/2.  $9" \times 10"$  2/6.  $10" \times 10"$  3/0  
 $10" \times 12"$  4/4.  $12" \times 12"$  6/0 each.

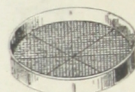
## CAST IRON BOILER FOR BRICKWORK.



No. 733.

Bower Barfield 6 to 25 galls. 1/1 per gall.  
Do. 30 to 100 galls. 1/9 ..

## STEEL WIRE RIDDLES.



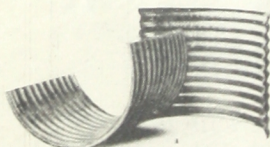
Hardwood Rims.

Mesh	Diam.	doz.	Price per	Mesh	Diam.	doz.	Price per
$\frac{1}{4}$	16	48	9	$\frac{1}{4}$	18	28	6
$\frac{1}{8}$	18	58	3	$\frac{1}{8}$	20	35	3
$\frac{1}{8}$	20	68	3	$\frac{1}{8}$	22	42	3
$\frac{3}{16}$	16	40	6	$\frac{3}{16}$	16	22	3
$\frac{3}{16}$	18	48	0	$\frac{3}{16}$	18	26	0
$\frac{3}{16}$	20	56	3	$\frac{3}{16}$	20	31	9
$\frac{1}{4}$	16	31	0	$\frac{1}{4}$	22	38	6
$\frac{1}{4}$	18	36	3	$\frac{1}{4}$	20	31	9
$\frac{1}{4}$	20	45	9	$\frac{1}{4}$	16	22	3
$\frac{1}{4}$	22	54	6	$\frac{1}{4}$	18	26	0
$\frac{5}{16}$	16	27	3	$\frac{5}{16}$	20	31	9
$\frac{5}{16}$	18	32	0	$\frac{5}{16}$	22	38	6
$\frac{5}{16}$	20	39	6	$\frac{5}{16}$	18	26	0
$\frac{3}{8}$	16	24	6	$\frac{3}{8}$	20	31	9

Extras.

One size extra strong 10% extra  
Two sizes extra strong 20% ..  
Oak Rims .. .. 10% ..  
Rims 3" and 4" .. 10% ..

## GALVANIZED CORRUGATED SHEETS, 3" CORRUGATIONS.



Curved Sheets. 3".



Straight Sheets. 3".

Prices on application.

Subject to Alteration with or without Notice.





## Portable Boilers

Made entirely of Cast-Iron, with Fire Chambers lined with Firebrick.  
Note.—Galvanized Steamer and Covers extra.



	With Plain Pan each	With Barflted Pan each	With Galvanized Pan each	With Tinned Copper Pan Brazed each
Galls.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
6	2 16 0	3 1 3	3 3 3	4 16 6
8	3 3 0	3 10 0	3 12 0	5 8 3
10	3 11 9	4 0 4	4 2 0	5 19 0
12	3 18 0	4 7 9	4 10 9	6 5 9
15	4 6 0	4 18 6	5 1 6	8 10 9
20	5 1 0	5 16 6	6 1 6	9 15 0
22	5 4 3	6 2 0	6 6 9	10 4 9
25	5 8 3	6 8 9	6 13 9	10 14 6
30	6 18 6	8 3 0	8 10 9	13 8 3
40	7 10 3	9 3 6	9 12 0	14 11 6
45	8 4 9	10 2 0	10 12 6	15 17 0
50	8 15 6	10 16 6	11 8 3	17 1 3
60	10 7 9	12 17 6	13 11 0	19 10 0
75	12 2 9	15 4 3	16 3 9	21 14 0
90	13 6 3	16 19 6	18 1 9	24 7 6
100	15 0 6	19 2 3	20 7 6	26 16 3

### THE "LUDGATE"

SPECIFICATION.—Of steel, with heavy cast-iron fire door, asphit door and frame, fire box, fire bars, baffle plate and flue collar; steel pan galvanized after made; closed-in bottom resting on strong malleable-iron tripod stand; malleable iron handles; back flue outlet; without pipe or cover.

No.	Capacity, Galls.	Pan Dia.	Pan Depth.	Outside Dia.	Outside Depth.	Price £ s. d.	Extra for Galvanized Cover.
580/5	5	14"	11"	18"	30"	2 10 0	7 0
580/7	7	15"	12"	19"	31"	2 15 0	7 0
580/9	9	16"	14"	20"	32"	3 5 0	7 6
580/12	12	18"	15"	22"	33"	4 10 0	7 6
580/16	16	21"	16"	25"	35"	5 0 0	7 6
580/20	20	21"	20"	25"	38"	5 0 0	7 6

### THE "LUDGATE"

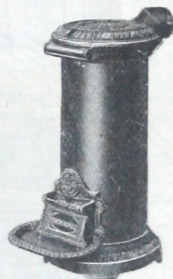
#### No. 8005.—Slow Combustion Stove.

Reversible Smoke Outlet.

Heating Outside

Power Sizes

Size	Capacity	Price	Sole Pan
ins.	ins.	£ s. d.	£ s. d.
9x20 Y.	5,000	3 1/2 0 16	4 6
9x25 Y.	6,000	3 1/2 0 18	5 6
10x27 Y.	10,000	4 1 0	5 3
12x30 Y.	14,000	4 1 7	6 6
14x33 Y.	16,000	5 1 14	7 6
16x36 Y.	25,000	5 2 5	7 6
17x40 M.	40,000	5 2 8	9 0
21x45 M.	68,000	6 7 2	6 9
24x50 M.	110,000	6 7 7	15 9



No. 8005

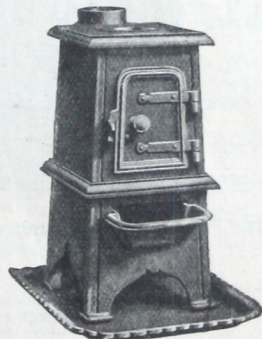
#### No. 3062.

### Improved Cast Iron Stove (Cast in Parts).

All with Brick Lining fitted except No. 1 which has Iron Lining

No.	Size of Body.	Height.	Size of Nozzle	Price
				£ s. d.
1	8 1/2"	17 1/2"	3"	1 0 0
2	9 1/2"	19 1/2"	3 1/2"	1 3 0
3	10 1/2"	22 1/2"	3 1/2"	1 6 3
4	11 1/2"	23 1/2"	4"	1 10 9
5	12 1/2"	26 1/2"	4"	1 17 0

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No. 3062





Samuel Gratrix Junr.<sup>1</sup> & Brother Ltd., Quay Street, Manchester

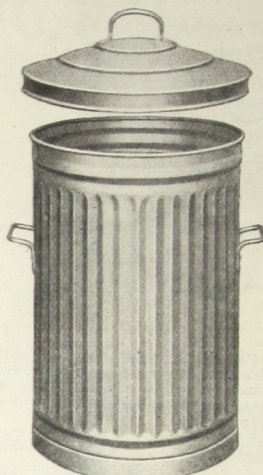
## Galvanized Iron Dust Bins



No. 6277.

Galvanized Iron Dust Bin and Cover

Sizes	22G	24G	26G
16" dia. × 20" high			5 6 each
17" dia. × 22" high			5 9 ..
18" dia. × 24" high	7 9	6 9	6 0 ..
20" dia. × 26" high			9 0 ..

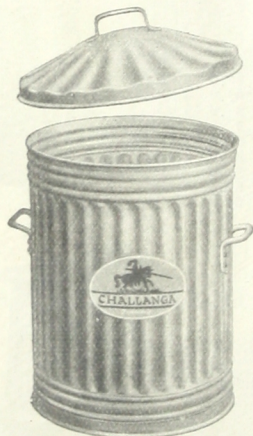


No. 6277C.

Galvanized Iron Corrugated Dust Bin with Cover

Size 18" dia. × 24" high

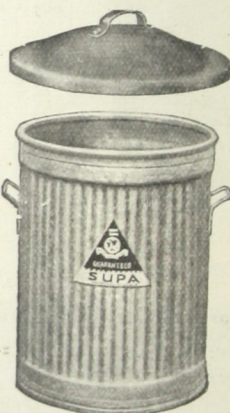
Price 6 3 each.



The "Challanga" Dust Bin with Cover

Size 18" dia. × 24" deep

6 6 each.



The "Supa" Dust Bin with Cover

Size 18" dia. × 24" deep.

26G	24G	22G
8 9	10 3	11 0 each

Subject to Alteration with or without Notice.





## Elsan Chemical Closets

### ELSAN MODEL 55.

**Complete £5/5/0 Carriage Paid.**  
**Including One Gallon Elsanol Chemical.**

The original open Container Model, unsurpassed for excellence in design, construction and finish.

It is built to the highest standards of sanitary perfection and made to give a lasting hygienic service.

Manufactured from special English sheet steel, coated and proofed against corrosion.

All outside parts are beautifully stove-enamelled, by a special process, in a pleasing shade of Eau de Nil.

#### *Specification :*

1. **Ventilation Chamber :** Oval-shaped, with special air-ducts ; built on solid steel base.
2. **Sewage Container :** Seamless : Oval. Vitreous fired, porcelain-enamelled, 7-gallon capacity. **Guaranteed leakproof and serviceable for ten years.**
3. **Urinal Guard** (Pat applied for). Vitreous-glazed.
4. **Ventilation Fittings :** Seven 1 ft. lengths of 3" pipe, two elbows and cowl.
5. **Seat and Lid :** Beautifully polished mahogany colour. Of well-seasoned wood. Hinges : Chromium-Plated.



*We can also  
supply :  
various other  
Models—  
particulars  
— on —  
application.*



### ELSAN MODEL 44.

**Complete £3/18/6 Carriage Paid.**  
**Including One Gallon Elsanol Chemical.**

This Popular Model is a sound, well-constructed sanitary appliance, highly recommended.

It is built to the highest standard of sanitary efficiency and made to give lasting service.

Manufactured from best English sheet-steel, coated and proofed against corrosion.

Ventilation Chamber beautifully stove-enamelled by a special process, in a pleasing shade of Swedish Green.

#### *Specification :—*

1. **Ventilation Chamber :** Oval shaped, with special air-ducts. Built on locked steel bottom, steel runners and domes.
2. **Sewage Container :** Seamless : Round. Vitreous-fired, porcelain-enamelled. Of 7-gallon capacity. **Guaranteed leakproof and serviceable for five years.**
3. **Urinal Guard** (Pat. applied for) : Stove-enamelled.
4. **Ventilation Fittings :** Six 1 ft. lengths 3" pipe, two elbows and cowl. All galvanized.
5. **Seat and Lid :** Beautifully polished mahogany colour of well-seasoned wood. Hinges : genuine solid brass.

**ELSANOL CHEMICAL—Per gallon 5/0.**

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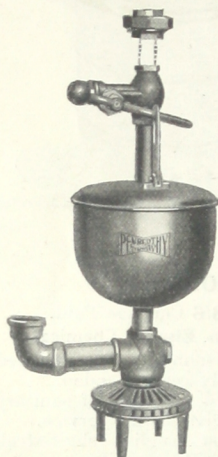


Samuel Gratrix Junr. & Brother Ltd., Quay Street, Manchester

## Penberthy (Regd.) Automatic Water-Operated Cellar Drainers

For automatically disposing of flood water or seepage in basements of buildings, and removing water from flywheel or elevator sumps, etc., where such are situated below the natural drainage level of the sewer, in cases where electric current is not available.

Willcox's "Penberthy" Automatic Water-operated Cellar or Sump Drainer is a "Penberthy" Water-Pressure Ejector of high capacity, automatically operated by a float-controlled, quick-opening-and-closing valve. Installed in a small sump in the lowest part of the cellar, the Drainer will keep same free from seepage and flood water without further attention. The pit or sump should be arranged so that all surplus water will drain to it, and may be constructed of brick, cement, or other suitable material. A cover should be provided that is NOT airtight and should be made in two pieces, these being cut out to fit around the pipes.



Model "R"

### MODEL "R"

Operates with economy at from 10 to 100 lbs. water main pressure, with lever and link motion adjustable to different pressures.

Unless otherwise specified, the Model "R" is supplied for all conditions as printed in **bold face** figures in the table of capacities, and requires 5 lbs. water pressure for each foot of elevation. (When made for the lower pressures and capacities shown in the lighter figures, the operating water pressure required is 2 to 4 lbs. per foot).

Table of Capacities at Different Pressures and Elevations, Pipe Sizes, etc.

Size and Model	Pipe Sizes	Working Dis- charge	Head in feet	Maximum Net Capacities from Sump in Galls. per Hour at 10 to 100 lbs. Water Pressure								Price each f.o.r. London	
	Supply			10	15	20	25	30	40	60	80		100
No. 1 Model "R"	1 1/2"	1"	3	80	210	300	340	400	510	700	720	700	£7 5 3
			6	90	140	240	300	390	570	670	690		
			9	90	150	210	330	480	620	660			
			12	100	150	220	390	550	630				
			15	90	190	300	450	600					
			18	120	250	320	550						
No. 2 Model "R"	1 3/4"	1 1/4"	3	190	390	550	620	750	910	1180	1240	1220	£11 13 0
			6	210	340	420	600	750	1020	1140	1200		
			9	210	300	380	540	900	1090	1150			
			12	210	300	420	780	1020	1110				
			15	210	370	570	940	1050					
			18	300	510	850	970						

When ordering, state water mains pressure available and height from sump to drain level.

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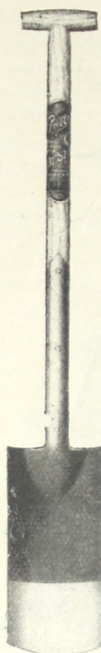






Samuel Gratrix Junr. & Brother Ltd., Quay Street, Manchester

No. 533



# GRAFTING TOOLS. No. 533.

Rivetted D Handle.

6 x 6 x 12... .. 40/6 per doz.

6½ x 6½ x 12½... .. 42/0 „

Crutch Handles, 3/0 per doz. less.

## COAL, COKE OR STONE

### FORKS. No. 764.

7	8	9	10 prongs
1¼	1¼	1¼	1 inch space.
130/6	156/0	181/6	231/0 per doz.

## SLEDGE HAMMERS.

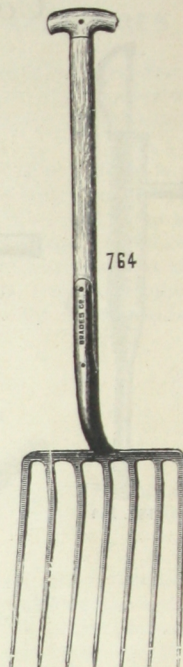
Double Face.



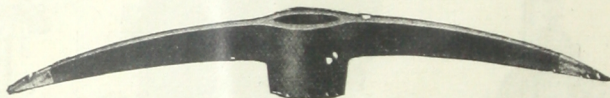
1792

6 lb. and heavier, 36/0 per cwt.

Straight Pein, 36/0 per cwt.



## PICKS. No. 1308.

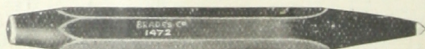


6 lbs. and up, 31/6 per cwt.

Hickory Pick Handles, 36", 18/6 per doz.

Hickory Sledge Handles, 36", 17/6 per doz.

## HEXAGON ROAD WEDGES. No. 1472.



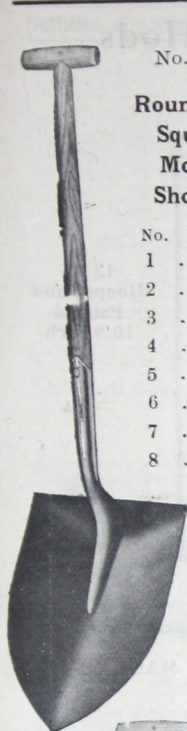
18" x 1¼", 11 lbs. .. 42/0 per cwt.

24" x 2", 20 „ .. 39/0 „

Also made square same prices.

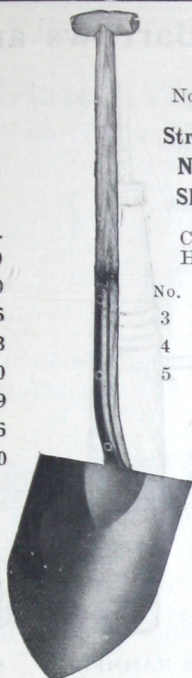
Subject to Alteration with or without Notice.





No. 551  
**Round and  
Square  
Mouth  
Shovels.**

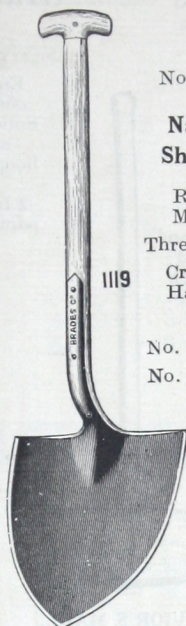
No.	Per doz.
1 ..	24/0
2 ..	25/0
3 ..	25/6
4 ..	26/3
5 ..	27/0
6 ..	27/9
7 ..	28/6
8 ..	30/0



No. 355  
**Strapped  
Navvy  
Shovel.**

No.	Per doz.
3 ..	36/0
4 ..	37/6
5 ..	39/0

Crutch  
Handle.



No. 1119

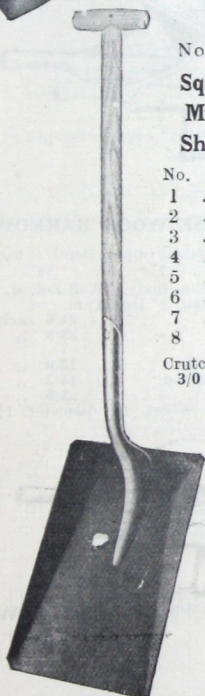
**Navvy  
Shovels.**

Round  
Mouth.

Three Rivets

Crutch  
Handles.

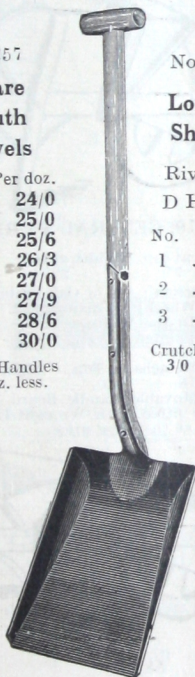
per doz.  
No. 2, 57/0  
No. 3, 60/0



No. 357  
**Square  
Mouth  
Shovels**

No.	Per doz.
1 ..	24/0
2 ..	25/0
3 ..	25/6
4 ..	26/3
5 ..	27/0
6 ..	27/9
7 ..	28/6
8 ..	30/0

Crutch Handles  
3/0 doz. less.

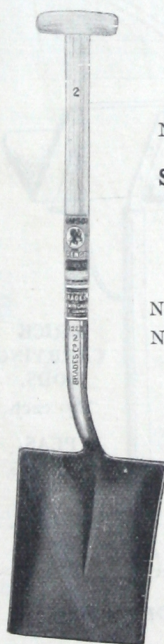


No. 356  
**London  
Shovel.**

Rivetted.  
D Handle.

No.	Per doz.
1 ..	37/6
2 ..	39/0
3 ..	40/6

Crutch Handles  
3/0 doz. less.



No. 1223  
**Shovels.**

Taper  
Blade.

per doz.  
No. 2, 54/0  
No. 3, 57/0

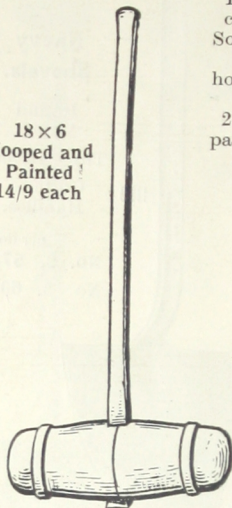




Samuel Gratrix Junr. & Brother Ltd., Quay Street, Manchester

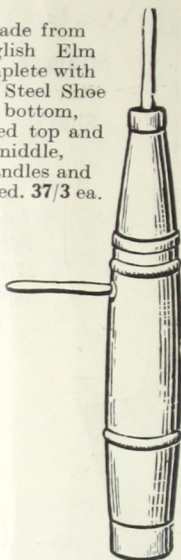
## Mauls, Barrows and Hods

18×6  
Hooped and  
Painted  
14/9 each



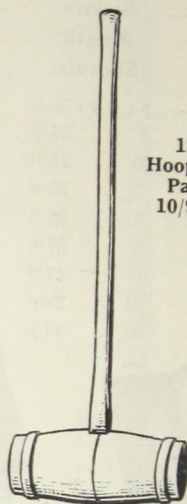
PAVIOR'S MAUL.

Made from  
English Elm  
complete with  
Solid Steel Shoe  
at bottom,  
hooped top and  
middle,  
2 handles and  
painted. 37/3 ea.

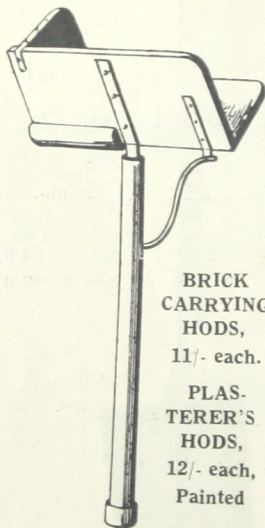


PAVIOR'S RAMMER.

12×6  
Hooped and  
Painted  
10/9 each



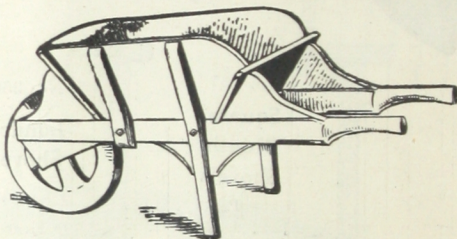
STAKE MAUL.



BUILDER'S HOD.

BRICK  
CARRYING  
HODS,  
11/- each.

PLAS-  
TERER'S  
HODS,  
12/- each,  
Painted



No. 110. GENERAL PURPOSE WOOD BARROW.

Length at top. 2' 7" Width at top. 2' Depth at front. 1' 1" Depth at back. 8 1/2"

Construction: Ash or Oak Frame, Elm Body. Well Bolted.

Wood Wheel: 18" diameter, 2" Tread, 4" Iron Tyre.

In the White . . . . . 24/6 each

Painted . . . . . 28/3 "

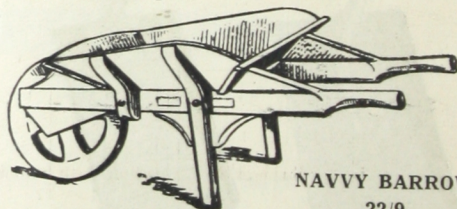
Extras:—

Detachable Top, " high, white . . . 12/0 "

Do. do. painted . . . 14/3 "

Movable Handle Board . . . 3/6 "

Can be fitted with Wrought-Iron Wheel, 17" diameter, 1 1/2" Tread, at the same price.



NAVY BARROW

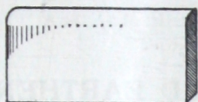
22/9





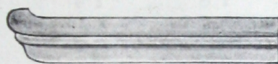
## Glazed Wall Tiles

BRITISH MANUFACTURE.



6" x 3" No. 188 R.E.

	Best	Commercial
6" x 3" No. 188 White Glazed Capping Tile ..	4/9	3/9 doz.
External and Internal Angles to ditto 6 $\frac{3}{4}$ " x 3"	8/6	6/6 „



External Angle to No. 8.

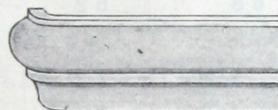


6" x 1" No. 8.



Internal Angle to No. 8.

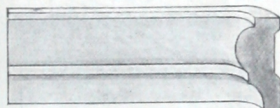
	Best	Commercial
6" x 1" White Glazed Mould .. .. .	3/0	2/6 doz.
Internal and External Angles for ditto .. .. .	4/6	3/9 „



External Angle to No. 6.



6" x 2" No. 6.



Internal Angle to No. 6.

	Best	Commercial
6" x 2" No. 6 White Glazed Mould .. .. .	5/6	4/6 doz.
Internal and External Angles for ditto .. .. .	8/3	6/9 „



	Best	Commercial
6" x 1" No. S10 Black and White Bright Enamelled Border Strips, Stencil Pattern.. .. .	—	3/6 doz.
6" x 1" R457 ditto, embossed .. .. .	4/0	— „

These Border Strips can also be supplied in other colours and designs.

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## Glazed Wall Tiles

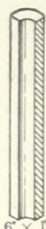
BRITISH MANUFACTURE.

### WHITE GLAZED EARTHENWARE TILES

Size	Best	Commercial	Seconds
6" × 6" × $\frac{3}{8}$ "	4/8	4/2	3/3 doz.
6" × 3" × $\frac{3}{8}$ "	2/4	2/1	1/7 $\frac{1}{2}$ "
6" × 6" × $\frac{1}{4}$ "	4/6	3/4	2/8 "
6" × 3" × $\frac{1}{4}$ "	2/3	1/8	1/4 "



External.



Internal.

	Best	Commercial
6" × 1" No. 338 White Glazed Angle Beads external or internal	2/9	2/3 doz.
6" × 1 $\frac{1}{4}$ " No. 12 ditto	3/3	2/9 "
6" × 2" No. 10 ditto	4/6	4/1 "
6" × 3" No. 9 ditto	6/8	6/2 "



6" × 1"  
No. 401  
External



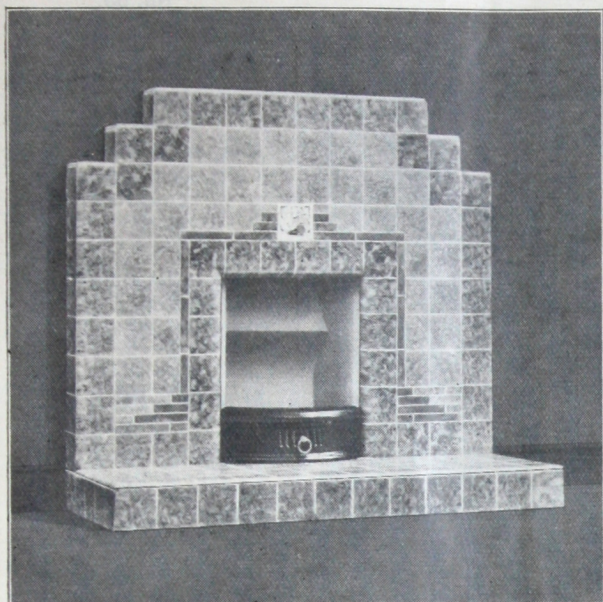
6" × 1"  
No. 402  
Internal

	Best	Commercial
6" × 1" No. 401 White Glazed External 3-way Piece (or Bird Beak)	3/11	3/4 doz.
6" × 1" No. 402 internal ditto		
6" × 1 $\frac{1}{4}$ " No. 212 external	4/10	4/1 doz.
6" × 1 $\frac{1}{4}$ " No. 97 internal		
6" × 2" No. 232 external	6/8	6/2 "
6" × 2" No. 350 internal		
5 $\frac{1}{8}$ " × 3" No. 95 external	10/0	9/3 "
5 $\frac{1}{8}$ " × 3" No. 96 internal		

We can also quote special prices for quantities.

Subject to Alteration with or without Notice.





S.T. 127.

## Independent All Tile Fireplace

48" × 40" high,

4½" return to wall,

16" Fire opening.

Raised plain edge

hearth, 4" high, with

025 fire.

Black Vitreous

Enamelled Fret.

In Dull Mottle Tiles.

Price £7/15/0 complete

436.

## All Tile Bedroom Fireplace

24" × 36".

2½" return to wall, to stand on

28" × 16" × 2½" high, plain  
edge raised hearth.

12" No. 25 Fire, Black Vitreous  
Enamelled Fret.

In Dull Mottle Tiles,

47/6 each complete.

This fireplace is supplied also  
for use with Inset type Electric  
Radiator. ∴ No fire parts.

40/- each.

(Electric fire not included.)

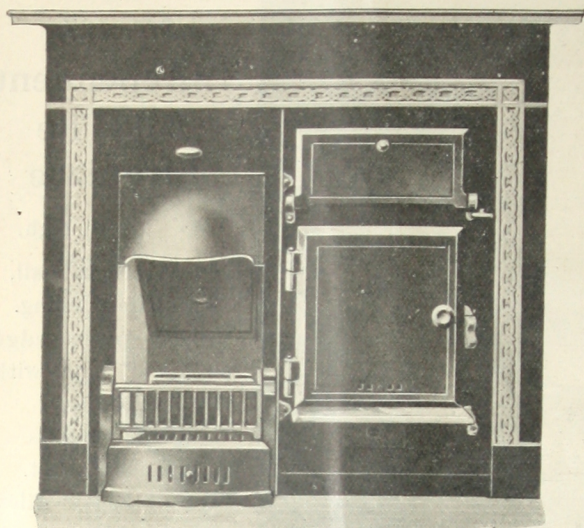
*Catalogues of suitable Electric  
Radiators on request.*







Samuel Gratrix Junr. & Brother Ltd., Quay Street, Manchester



No. 55.

38" × 38"

## Combination Grate

Cast-iron Sectional Oven.

Ground and Stove Enamelled.

Nickel-plated Bracket Shelf and Oven Door Handle. Packed Oven Door, Pedal Opener, Prepared for boiler.

£6/15/9 each.

No. 2320.

## MANTEL FINE CAST

5" jambs, 10" frieze, primed one coat.

£1/4/9 each.

Set Plain Enamel Tiles for hearth, 15/- set.

Curb for raised hearth, 16/6 each.

No. 662.

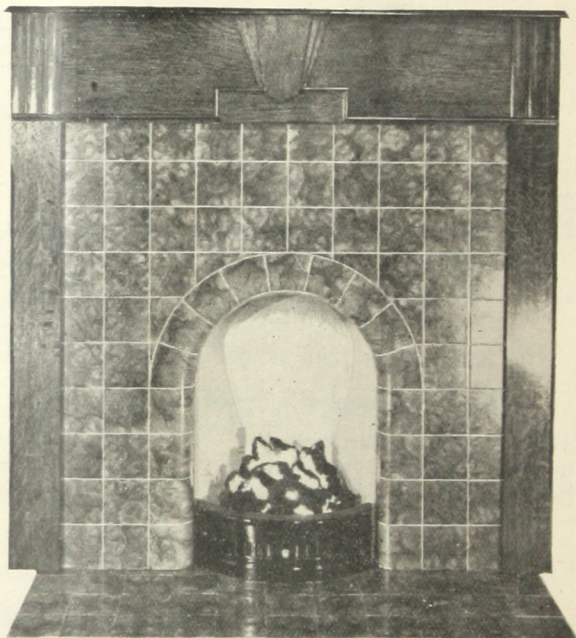
## Jacobean Oak Mantel

With Round Arch surround 40" × 40", 16" fire opening, loose 4" × 4" tiles for hearth, 025 Fireparts with Black Vitreous Enamelled fret.

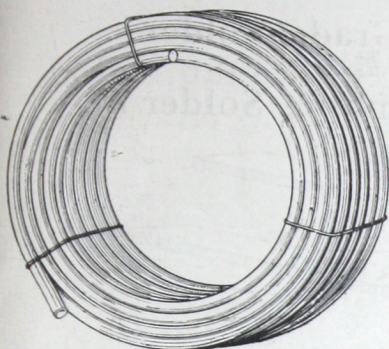
Dull Mottle Tiles.

£5/5/0 set.

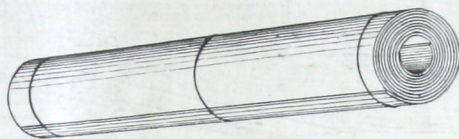
If Firebrick Back prepared for Boiler, including Damper, 5/- extra.







## Manufacturers of Lead Sheets and Pipes



**SHEET LEAD** from  $1\frac{1}{2}$  lbs. and upwards  
per square foot 15ft. to 30ft. long.

### LEAD WATER PIPE. *Strength per yard and average Length of Rolls.*

Ins.	3	4	4½	5	5½	6	7	8	Lbs. to the Yd.
3	28	28	25	44	40	40	35	30	25
1	3½	4	4½	5	5½	6	6½	7	8
1	24	31	28	44	40	35	30	25	20
5	5	5½	6	7	7½	8	9	10	11
5	28	26	24	31	29	27	24	22	21
3	6	7	8	9	10	10½	11	12	13
3	24	31	27	24	22	21	20	18	16
1	8	9	10	11	12	13	14	15	16
1	24	25	22	20	18	16	15	14	12
1½	9	10	11	12	14	16	18	21	22½
1½	12	11	10	14	16	14	11	10	10
1½	10	11	12	14	16	18	21	24	28
1½	8	9	12	13	10	10	18	15	
1¾	16	18	18	24					
1¾	12	12	18						
2	16	18	21	24	28	32	36	40	
2	10	8	7	9	15	14	12	10	

### LEAD BARRELLING.

In 10' or 12' lengths. (Smaller lengths cut to order).

Ins.	26	27	29	Lbs. to the Yd.
2½	26	28	36	
3	36	40	45	51
3	56	60	70	75
3½	45	58	62	
4	48	56	60	72
4½	54	84		
5	75			

### LEAD, GAS OR WASTE PIPE. (UNTINNED COMPO).

Inch	12½, 15	ozs. per yd.	Inch	3, 3½, 4, 5	lbs. per yd.
5/16	16		½	5, 6, 7	
	16, 19, 22½, 24		1½	6, 7, 8	
	28, 32, 48				
	24, 26, 28, 32, 42, 48,		1½	8, 9	
	42, 48, 56, 64		2	15	

### LEAD TWIGGING.

½ bore = 6 oz. per yard.  
3/16 bore = 8 oz. per yard.

### LEAD WATER PIPES.

In 10' or 12' lengths. (Smaller lengths cut to order).

Ins.	Equal to	
2	6, 7, 8, 10 lb. Sheet Lead.	
	40 45 52 68 lbs. per 12' length.	
2½	47 59 62	lbs. "
3	59 68 78 108 lbs.	" "
3'	63 82 97	lbs. "
4	80 92 107 136 lbs.	" "
4½	84 102 121	lbs. "
5	93 111 134	lbs. "

### LEAD WIRE.

¼, 3/16, ½, 5/16, ¾, 1, 1½ diameter.  
Also in 12's, 13's, 14's, 16's, and 17's B.W.G.

### RECTANGULAR LEAD PIPE.

In 10' or 12' lengths.

Inches.	Equal in thickness of walls to—	Per 12' length
3½ × 2½	8lb. Sheet Lead	94lb.
4 × 3	7lb. "	97lb.
4 × 3	8lb. "	114lb.
4 × 3	7lb. "	139lb.
4½ × 3	8lb. "	123lb.

### WINDOW LEAD.

½, 5/16, ¾, 1, 1½, 2" FLAT or BEADED.

### LEAD TAPE.

¾ × 1/16, ¾ × 3/16, ¾ × 1/16, ¾ × ½,  
¾ × 1, 21/32 × 5/32, 15/16 × ½,  
15/16 × 5/16, 1 × 1/16, 1 × ½, 1 × ¾, 1 × 1,  
1½ × 1/16, 1½ × 1/16, 2 × 1/16

### LAMINATED LEAD.

Sheets 7' × 2' = 4 oz. per square ft.  
In 28 lb. bundles.

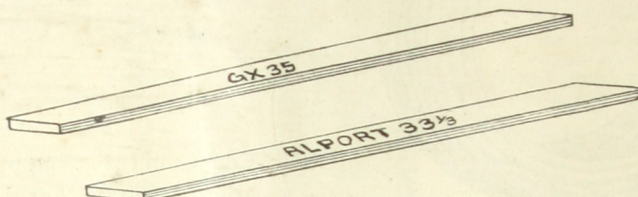
*Chemical Sheet Lead and Pipes a Speciality.*





Samuel Gratrix Junr. & Brother Ltd., Quay Street, Manchester

## GX Brand High Grade Solder AND Alport Brand Plumbing Solder



Also TINMANS' AND BLOW PIPE SOLDER.

### GRATRIX'S PURE LINSEED OIL PUTTY

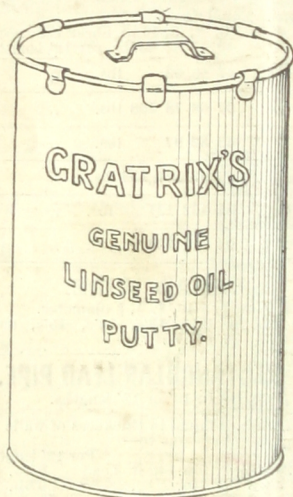
*made solely with*  
Genuine Linseed Oil and Whiting.

### BON ACCORD STEEL SASH PUTTY

*made specially for glazing on*  
metal casements.

### READY-MIXED PAINTS

Highly Durable and Weather-resisting,  
in 2, 4, 7 or 14 lb. lever-lid tins.



Best  
Quality



*Any shade matched or colour supplied.*

## Insulating Pipe-covering Material Red and Grey Mastic

Prices on application.



Rain Water Goods  
Baths, Lavatories, Sinks  
Galvanized Cisterns  
Tubes in Iron, Copper and Brass  
Malleable "G.F." Fittings  
Copper Cylinders  
and Boilers  
Brass—Water and Steam Fittings  
Plumbers Brasswork  
Electric and Gas Fittings  
for Lighting and Heating

Stockists of  
"BEESTON" and "NATIONAL"  
Boilers and Radiators  
Hot Water Pipes and Connections

Lists on application  
Samuel Gratrix Jnr. & Brother  
ALPORT WORKS Limited

Quay Street, Deansgate, Manchester 3

Telephone BLACKfriars 6601

P.O. Box No. 417

Telegrams "Lead Manchester"



WE ARE THE PATENTEES & SOLE MANUFACTURERS OF THE

# "BUTTRIX"

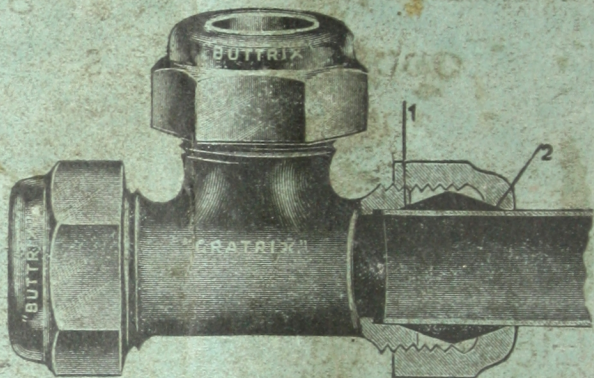
(Reg. No. 537316)

## PATENT COMPRESSION JOINT

(Pat. No. 398682)

(Foreign Patents pending)

FOR LIGHT COPPER PIPES, ETC.



### THE JOINT WITH THE "DOUBLE GRIP"

Note the two points of contact on illustration.

To fix.—Place the cap on the tube, then slip on the copper ferrule and screw the cap on the body of the fitting, thus compressing the ferrule on the tube making a perfect joint.

The Joint can readily be taken asunder, and refixed as required.

The "BUTTRIX" JOINT does not damage the tube in any way.

NO SPECIAL TOOLS REQUIRED FOR FIXING.

Time and labour reduced to a minimum.

Made in  $\frac{1}{2}$  in. to 2 in. sizes to suit different gauges of tubes.

Approved by H.M. OFFICE OF WORKS, WATER AUTHORITIES,  
ARCHITECTS, and PUBLIC INSTITUTIONS.

FULL DESCRIPTIVE CATALOGUE may be had on application.